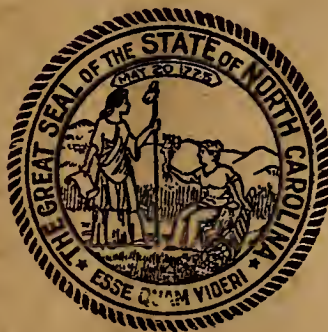


BULLETIN
of
A. & T. COLLEGE

Published by
**THE AGRICULTURAL AND
TECHNICAL COLLEGE
of NORTH CAROLINA**

Obedience to the Law is the Largest Liberty



Issued Quarterly
**GREENSBORO, NORTH CAROLINA
CALENDAR 1932-1933**

Entered as second-class matter, July 2nd, 1909, at the post-office at Greensboro, N. C., under the Act of July 16th, 1894.

THIRTY-SEVENTH
ANNUAL CATALOG
of the
Agricultural
AND
Technical College
OF NORTH CAROLINA
(Co-Educational Institution)

Recognized as a standard college by North Carolina Department of Education, the Board of Regents of the State of New York, the American Medical Association, the Southern Association of Colleges and Secondary Schools.

1931-1932
with announcements for
1932-1933

GREENSBORO, NORTH CAROLINA



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TABLE OF CONTENTS

Application Blank	Page 181
Additional Courses	21
Administration, Officers of	11
Admission to College	18
Admission Requirements	20
Advanced Standing	57
Agriculture, School of	31
Aim	33
Association	33
Curricula	33
Curricula in General	35
Curriculum, Special Students	36
Curriculum for Teachers	34
Four-Year College Course	32
Methods of Instruction	39
Outline of Courses	38
Seminar	33
Short Course	32
Requirements for Graduation	32
Two-Year Course	37
Winter Course	38
Agronomy, Course in	70
Animal Husbandry, Course in	71
Announcements	5
Architecture, Courses in	75
Arts and Sciences, College of	56
Curricula, Freshmen	59
Curricula, Pre-Medical	61
Curricula, Sophomore	60
Curriculum, American History, Major in	62
Curriculum, Biological Sciences, Major in	63
Curriculum, Chemistry, Major in	63
Curriculum, Business Administration, Major in	64
Curriculum, Commerce, Major in	64
Curriculum, Economics, Major in	65
Curriculum, English, Major in	65
Curriculum, European History, Major in	66
Curriculum, Education, Physical, Major in	67
Curriculum, Foreign Language, Major in	68
Curriculum, Sociology, Major in	68
Curriculum, Special Courses in Business Administration	66
Curriculum, Mathematics, Major in	68
Art, Courses in	78
Biological Sciences, Courses	82
Business Administration, Courses	85
Calendar	8
Certification, High School Teachers' Requirements	59
Chemistry, Courses	91
College Band	23
College Buildings	16
College Radio Station	24
Commercial Education	85
Contracting and Building, Courses	93
Credits	20
Debating Team	26
Degrees	22
Economics, Courses	97
Education, Courses	99
Electrical Engineering, Courses	105
English, Courses	106
Entrance Examinations	7
Evening School	26
Expenses	27
Extension Department	172
Farms	31
Farmers' District Meeting	32
Fees	27
Foreign Languages, Courses	109
Fraternities	22

TABLE OF CONTENTS—(Continued)

General Information	22
Geography, Courses	115
Geology, Courses	115
Grading System	21
Graduation, Requirements	21
History of College	16
History, Courses	113
Home Economics, Courses	40, 115
Horticulture, Courses	119
Information, General	22
Industrial Arts, Courses	120
Instruction, Officers of	12
Kappa Phi Kappa Key	25
Laundry	29
Literary Societies	23
Majors and Minors	57, 62-69
Mathematics, Courses	121
Mechanic Arts, Department of	42
Buildings	43
Curriculum in Architecture	46
Curriculum in Contracting and Building	48
Curriculum in Mechanical Engineering	49
Curriculum in Fine Arts	53
Curriculum in Teacher Training	51
Equipment	44
Outline of Courses	42
Teacher Training for Trades	51
Mechanical Engineering, Courses	123
Medals	25
Meteorology, Course	130
Military Science, Courses	130
Museum, Industrial	23
Music, Courses	133
Nurse Training, Opportunities	24
Organizations	22
Philosophy, Courses	134
Physical Education, Courses	135
Physics, Courses	137
Political Science, Courses	139
Prizes	25
Registration and Credits	20
Religious Activities	23
Rural Engineering, Courses	140
Scholarships	24
Secretarial Science, Courses	141
Sociology, Courses	143
Special Students	19
Summer School	26
Students, Register of	157
Degrees Conferred, 1932	157
Distribution by Classes	180
Distribution by Counties	179
Enrollment by State and Foreign Countries	179
Trade School	145
Courses Offered	146
Description of Courses	148-156
Entrance Requirements	146
Trustees, Board of	10
Unclassified Students	19
Unit of Credit	19
Women, Opportunities for	57

ANNOUNCEMENTS

NOTE ANNOUNCEMENTS — IMPORTANT TO EVERY STUDENT

1. **VACCINATION.**—Each student is required to be vaccinated on entering unless evidence be presented to satisfy the college physician that vaccination is unnecessary.

2. **LODGING DEPOSITS.**—Because of limited accommodations students should secure rooms at once for September lodging, by paying one dollar for reservation of room.

3. **EXAMINATIONS.**—Entrance examinations and examinations for removal of conditions will be held September 11th and 12th. All students who have conditions to remove should avail themselves of this opportunity.

4. **BOARDING STUDENTS.**—All students who room on the campus must take meals in Murphy Hall.

5. **NON-RESIDENT STUDENTS.**—The college will not permit students whose legal residence is not in Greensboro to board and lodge off the campus unless they have employment that requires them to live on the premises.

6. The college will not permit fraternities, sororities or other groups to establish "houses" off the campus.

7. **ENTRANCE FEES.**—Each student must pay in cash all entrance fees and expenses for the first month, when he registers.

8. **FEES: *Monthly and Quarterly.***—Any student whose bills are not paid on or before the day following the date on which such bills are due, will be excluded from all college privileges until such bills are paid.

9. **CREDIT.**—Each regularly classified student will be required to register for 15 hours of work as a minimum. The maximum shall be 20 hours except as provided for by exceptional scholarship.

10. **GRADES.**—Any student who illegally drops a course for which he registered, shall be assigned the grade of "F" at the end of the quarter.

11. COMPLETE REGISTRATION.—No credit will be granted for courses added to one's schedule after his registration has been completed.

12. CUTS.—No credit will be granted for any course, to any pupil whose absentees exceed one-sixth of the entire meetings assigned for the course per quarter.

13. CUTS, NEAR HOLIDAYS.—Every *cut* immediately preceding, or immediately following, any holiday shall be counted as *TWO CUTS*.

14. LATE FEES.—Each registrant will be required to pay 50c for each day that he is late after the last day assigned for registration.

15. DISMISSAL.—Any student who manifests unwillingness to conform to the rules and regulations that are prescribed, or, that may be prescribed to govern the student body, or, any student whose influence or deportment seems detrimental to the best interest of the school, will be asked to withdraw from the Institution.

16. To encourage scholarship and integrity, the college will publish an Honor Roll at the end of each quarter.

17. All students whose average grade in all courses and deportment is "B" shall be eligible for the Honor Roll.

All students whose average grade is "A" in all courses and deportment for three consecutive quarters shall be eligible for free tuition for a similar period.

SCHEDULE OF ENTRANCE AND REMOVAL OF CONDITION EXAMINATIONS

The college will conduct entrance examinations and also examinations for removal of conditions September 12, 1932.

The hours for examination are 8:00 a.m. and 1:30 p.m. Students intending to take any of the examinations scheduled must appear at least an hour before the time of the examination, and report to the office of the Registrar, for registration and instruction.

MONDAY, SEPTEMBER 12, 1932—

8:00 to 10:00 a.m.:

History—Ancient, Medieval, Modern, American, Civics; Dairying; Architecture; Physics, Sociology; Psychology.

10:00 to 12:00 noon:

English—Composition and Rhetoric, Literature, English and American; Industries; French; German; Latin; Poultry; Botany.

1:30 to 3:30 p.m.:

Mathematics—Algebra, College Algebra, Trigonometry, Calculus; Political Science; Agronomy; Horticulture; Chemistry; Commercial Courses; Biological Sciences; Economics.

CALENDAR FOR 1932

JANUARY	FEBRUARY	MARCH	APRIL
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
-- -- -- -- 1 2	-- 1 2 3 4 5 6	-- -- 1 2 3 4 5	-- -- -- -- -- 1 2
3 4 5 6 7 8 9	7 8 9 10 11 12 13	6 7 8 9 10 11 12	3 4 5 6 7 8 9
10 11 12 13 14 15 16	14 15 16 17 18 19 20	13 14 15 16 17 18 19	10 11 12 13 14 15 16
17 18 19 20 21 22 23	21 22 23 24 25 26 27	20 21 22 23 24 25 26	17 18 19 20 21 22 23
24 25 26 27 28 29 30	28 29 -- -- -- --	27 28 29 30 31 -- --	24 25 26 27 28 29 30
31 -- -- -- -- --	-- -- -- -- --	-- -- -- -- --	-- -- -- -- --
MAY	JUNE	JULY	AUGUST
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4 5 6 7	-- -- -- 1 2 3 4	-- -- -- -- -- 1 2	-- 1 2 3 4 5 6
8 9 10 11 12 13 14	5 6 7 8 9 10 11	3 4 5 6 7 8 9	7 8 9 10 11 12 13
15 16 17 18 19 20 21	12 13 14 15 16 17 18	10 11 12 13 14 15 16	14 15 16 17 18 19 20
22 23 24 25 26 27 28	19 20 21 22 23 24 25	17 18 19 20 21 22 23	21 22 23 24 25 26 27
29 30 31 -- -- --	26 27 28 29 30 --	24 25 26 27 28 29 30	28 29 30 31 -- --
-- -- -- -- --	-- -- -- -- --	31 -- -- -- --	-- -- -- -- --
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
-- -- -- -- 1 2 3	-- -- -- -- -- 1	-- -- 1 2 3 4 5	-- -- -- -- 1 2 3
4 5 6 7 8 9 10	2 3 4 5 6 7 8	6 7 8 9 10 11 12	4 5 6 7 8 9 10
11 12 13 14 15 16 17	9 10 11 12 13 14 15	13 14 15 16 17 18 19	11 12 13 14 15 16 17
18 19 20 21 22 23 24	16 17 18 19 20 21 22	20 21 22 23 24 25 26	18 19 20 21 22 23 24
25 26 27 28 29 30 --	23 24 25 26 27 28 29	27 28 29 30 -- --	25 26 27 28 29 30 31
-- -- -- -- --	30 31 -- -- -- --	-- -- -- -- --	-- -- -- -- --

CALENDAR FOR 1933

JANUARY	FEBRUARY	MARCH	APRIL
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4 5 6 7	-- -- -- 1 2 3 4	-- -- -- 1 2 3 4	-- -- -- -- -- 1
8 9 10 11 12 13 14	5 6 7 8 9 10 11	5 6 7 8 9 10 11	2 3 4 5 6 7 8
15 16 17 18 19 20 21	12 13 14 15 16 17 18	12 13 14 15 16 17 18	9 10 11 12 13 14 15
22 23 24 25 26 27 28	19 20 21 22 23 24 25	19 20 21 22 23 24 25	16 17 18 19 20 21 22
29 30 31 -- -- --	26 27 28 -- -- --	26 27 28 29 30 31 --	23 24 25 26 27 28 29
-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	30 -- -- -- -- --
MAY	JUNE	JULY	AUGUST
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
-- 1 2 3 4 5 6	-- -- -- -- 1 2 3	-- -- -- -- -- 1	-- -- 1 2 3 4 5
7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8	6 7 8 9 10 11 12
14 15 16 17 18 19 20	11 12 13 14 15 16 17	9 10 11 12 13 14 15	13 14 15 16 17 18 19
21 22 23 24 25 26 27	18 19 20 21 22 23 24	16 17 18 19 20 21 22	20 21 22 23 24 25 26
28 29 30 31 -- --	25 26 27 28 29 30 --	23 24 25 26 27 28 29	27 28 29 30 31 --
-- -- -- -- --	-- -- -- -- --	30 31 -- -- --	-- -- -- -- --
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
-- -- -- -- 1 2	1 2 3 4 5 6 7	-- -- -- 1 2 3 4	-- -- -- -- 1 2
3 4 5 6 7 8 9	8 9 10 11 12 13 14	5 6 7 8 9 10 11	3 4 5 6 7 8 9
10 11 12 13 14 15 16	15 16 17 18 19 20 21	12 13 14 15 16 17 18	10 11 12 13 14 15 16
17 18 19 20 21 22 23	22 23 24 25 26 27 28	19 20 21 22 23 24 25	17 18 19 20 21 22 23
24 25 26 27 28 29 30	29 30 31 -- -- --	26 27 28 29 30 --	24 25 26 27 28 29 30
-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	31 -- -- -- --

COLLEGE CALENDAR

CALENDAR, 1932-1933

- September 12—Entrance examinations and examinations for removal of conditions.
September 13—Registration of Freshmen and new students.
September 14—Registration former students.
September 15—Fall term begins.
December 20, 21, 22—Fall term examinations.
January 3—Registration winter term.
January 4—Winter term begins.
March 8, 9, 10—Winter term examinations.
March 14—Registration Spring Quarter.
March 15—Spring term begins.
May 24, 25, 26—Spring term examinations.
May 28—Baccalaureate sermon.
May 30—Commencement.

HOLIDAYS

Armistice Day; Thanksgiving Day and Friday following; Christmas holidays, December 23, 1932—January 3, 1933; Easter Monday; July 4.

SPECIAL DAYS

Dudley Day—November 2, 1932.

Douglas' Birthday and Negro History Week, February 9-15—Special program by English department. Education Week.

Arbor Day, March 15—Special program by School of Agriculture.

Morrill's Birthday, April 14—Agriculture and Mechanic Arts Societies have special programs.

Farmers' Conference, July 24-25.

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BLANCHE STEPHENS

Morris Brown University
Stenographer to District Farm and Home Demonstration Agent

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S. C. State College
Guilford County Agent

HISTORY OF THE COLLEGE

This college was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The object of this institution is declared by the act to be for instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto not excluding academic and classical instruction.

The management and control of the college and the care and preservation of all its property are vested in a Board of Trustees, consisting of fifteen members, who are elected by the General Assembly, or appointed by the Governor, for a term of six years.

The Trustees, by the act of the Legislature, have power to prescribe rules for the operation of the college; to elect the president, instructors, and as many other officers and assistants as they shall deem necessary; and have general and entire supervision of the establishment and maintenance of the college.

The financial support of the college for the payment of salaries and purchase of apparatus and equipment is derived from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This act makes an annual appropriation for each State and Territory for the endowment and support of colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, and natural economic sciences, with special reference to their application in the industries of life and the facilities of their instruction."

The college also receives an appropriation from the State for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

The citizens of Greensboro donated fourteen acres of land and \$11,000 to be used in the construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. Dudley Hall was completed in 1893 and the school opened in the fall of that year.

THE COLLEGE BUILDINGS

The college buildings are heated with steam and lighted by electricity. All the buildings are kept in a sanitary condition and the healthfulness of the campus and surroundings is well known.

NEW DUDLEY HALL

On January 27, 1930, the original Dudley Hall was destroyed by fire. The erection of the New Dudley Hall was undertaken immediately thereafter. February 15, 1931, it was occupied. This is a fine fireproof structure of three stories, larger and better built to meet the needs of a modern college. It contains classrooms, assembly room, library, offices for the President, Dean of Science College, Treasurer, Registrar, Bursar, and other administration divisions.

LIBRARY

Our Library is housed in the New Dudley Administration Building. Already 15,000 bound volumes carefully selected to meet the varied needs and interests of modern college students, have been added.

Leading daily papers, periodicals and other publications in many fields of activity are regularly received.

The main reading room is large and well appointed. It is under personal direction of a specially trained librarian and is open daily to all students of the college.

NORTH DORMITORY

The North Dormitory is a three-story building which contains rooms for about 70 students.

SOUTH DORMITORY

The South Dormitory is a three-story, brick building, which contains rooms for 92 students, the basement of which is used for store rooms.

MORRISON HALL

Morrison Hall is a fireproof, three-story building with basement. It contains rooms for 130 students.

THE AGRICULTURAL BUILDING

The Agricultural Building is a fireproof, three story structure, with basement. It contains laboratories for botany, dairy products, zoology, geology, physics and chemistry and class rooms and offices for the Dean, School of Agriculture and the heads of divisions.

MECHANICAL BUILDING

The Mechanical Building is a two-story brick building, with basement. In the basement of this building are located

the brick shop, wood turning shop and carpentry machine shop. On the first floor are the machine, the carpentry, the tailor and the shoe repair and leather work shops, while on the second floor are the Director's office, drawing rooms, electrical engineering and laboratory and seminar room.

AUTO MECHANICS BUILDING

Automobile Mechanics Building is a one-story, fireproof structure. It is 120 feet long and 55 feet wide, and contains class room, a machine shop, office, locker room, tool room, battery charging room, storage room for automobiles and auto mechanics shop.

MURPHY HALL

Murphy Hall is a one-story, fireproof building, which contains the dining room and the kitchen and refrigeration plant. The dining room contains seating capacity for 800 students. It is one of the most beautiful buildings of its kind to be found in the State.

FORGE SHOP

The forge shop is located in a separate brick building and is equipped with individual forges and forge shop machinery.

POWER PLANT

A new central heating and power plant has recently been installed containing boiler capacity of 600 horse power and affords the students of Mechanical Engineering the opportunity of practical experience in boiler room operation and management. Attached to the power plant is a modern steam laundry with latest equipment.

ADMISSION TO COLLEGE

Admission to Freshman class may be gained by :

- (a) Entrance Examination conducted by the College.
- (b) Examinations conducted by College Entrance Board,
and
- (c) Through certificate from accredited schools.

Students who desire admission to the Freshman class by certification must show that they have completed fifteen units of high school work. At least ten units should be in the following subjects :

English	4 units
History	1 unit
Foreign Language or Vocational Work.	2 units
Algebra	1 unit
Plane Geometry	1 unit
Science	1 unit

The remaining credits to make up the fifteen units may be offered from the following subjects: Foreign Languages, 2; Mathematics, 2; Science, 2; History, 1; Mechanical Drawing, 1; Agriculture, 2; Manual Training, 1.

(*Note:* Only 2 units of non-Academic work will be accepted in the 15 units of work.)

UNIT OF CREDIT

A unit of work in the above requirements is approximately a fourth of a year's work in a secondary school. It is assumed that a study is pursued for four or five periods a week; that the recitation periods are from forty to sixty minutes in length; and that the length of the school year is from eight to nine months. In the College the unit of credit is the term hour which stands for one recitation or two laboratory periods per week for twelve weeks. Each recitation period carries with it approximately two hours of preparation.

SPECIAL STUDENTS

In exceptional cases applicants, of mature years, or, of special training along particular lines, or of long experience in specific fields of knowledge, may be admitted to the college to study certain subjects, as special students, even though they cannot satisfy entrance requirements. Such students must do a passing grade of work in each course for which they may be permitted to register, or they will be asked to withdraw from said course.

Credit gained by such students shall not be counted towards a degree.

UNCLASSIFIED STUDENTS

Any student who is permitted to register, either for less than the minimum amount of work required in the curriculum which he is pursuing, or, for courses that do not carry credit in the same curriculum, to the exclusion of subjects which do carry credit, shall be designated as an *unclassified student*.

ADMISSION REQUIREMENTS

Applicants for advanced standing will be passed upon by the Admission Officer.

All persons who desire to enter the college should make application to the Registrar before the opening of the quarter in which they wish to enroll. Those who desire to be admitted by certificate should apply as soon as possible after graduation from high school. For all applicants the blank form found in the back of the catalogue is sufficient. Early attention to this matter will save the student much delay at the opening of the session.

Admission to the College must be secured in one of the following ways:

1. By certificate. Graduates from high schools in the State will receive entrance credits according to the standing of their respective schools, as shown by the official bulletin of the State Department of Education.

2. If the student is not a graduate of an accredited high school, he must comply with the requirements by examination. Entrance examinations will be held at the college on September 11th and 12th.

3. Every student, irrespective of the method by which he seeks admission, must present to the college through the principal of his former school, a transcript covering his entire record of subjects and grades for four years, and second, a statement including principal's estimate of his character.

REGISTRATION AND CREDITS

All regular students will be required to register for 13 hours of prepared work per quarter, as a minimum. The maximum shall be 17 hours per quarter except as follows:

- (a) Students whose general average is "C" shall be held to the above requirements, for the quarter following such a record.

- (b) Students whose average is "B" with no grade below "C" may be permitted to register for not more than 18 hours of prepared work.

- (c) Students whose average is "A" with no grade below "C" may be permitted to register for not more than 21 hours work for the quarter following such a record.

MARKING SYSTEM

<i>Percentage</i>	<i>Grade</i>	<i>Grade Points</i>
93-100	A	(Excellent) .....3
82-92	E	(Good) .....2
71-81	C	(Fair) .....1
60-70	D	(Poor, but passing) .....0
50-59	E	(Condition) .....0
Below 50	F	(Failure) .....0
Incomplete	I	
Withdrew, Passing ...	W. P.	
Withdrew, Failing	W.F.	

The student receiving a grade of "E" in a given course will be given re-examination in the course. This will be given on the fourth Saturday following the first examination. Passing the examination he will be given a grade of "D", failing to report for the examination, he will be given grade "F."

The maximum points which a student can make under this system will be 588, the minimum 196. That is, in order to graduate, a student must make an average of "C."

ADDITIONAL COURSES

Students will not be permitted to add a course except on the approval of the Dean of the College in which he is taking his work, and in no case later than two weeks after the class work has begun.

GRADUATION REQUIREMENTS

Graduation from the A. and T. College involves the satisfaction of the following requirements:

1. The candidate for a degree must have selected a specific curriculum, having the approval of the Dean of the College in which he is registered. This curriculum must be completed.

2. Whether registered in the Agriculture, Arts and Science or Mechanic Arts he must complete 196 quarter hours and 196 grade points.*

3. He must complete a satisfactory thesis. A copy of the thesis must be filed with the Registrar on or before May 15th of the Senior Year.

4. It is the aim of the institution to send forth men and women who are fit representatives. To this end, the faculty reserves the right to refuse to admit any student to the Senior

*Effective with Freshman Class 1930.

Class or to promote any one who, though qualified by class record, may otherwise seem unfit.

5. The college reserves the right to require candidates for graduation to spend at least one summer on the grounds for practical work, unless they furnish satisfactory reports from responsible persons as to their efficiency.

6. Payment of Diploma fee of five dollars (\$5.00) must be made to the Bursar on or before May 1st preceding graduation.

7. Students in graduating class must clear all conditions by close of winter quarter.

DEGREES

Students graduating from the Agricultural Course shall be entitled to a degree of Bachelor of Science in Agriculture.

Students graduating from the Mechanical Course will be entitled to the degree of Bachelor of Science in Architecture, Mechanical Engineering, Building and Construction and teachers of Industrial Arts. Students graduating from the Science College shall be entitled to the Bachelor of Science degree.

GENERAL INFORMATION

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work, for which they can get credit each month at the time of their advance payment.

The pay allowed all students, except Seniors, shall be in settlement of their accounts or claim against the college.

The several industries operated in the school afford opportunity for a limited number of needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, can earn per month.

ORGANIZATIONS

FRATERNITIES

The following national fraternities have chapters at the college for college men: Alpha Phi Alpha; Omega Psi Phi; and Phi Beta Sigma.

SORORITIES

The following national sororities have established local chapters: Alpha Kappa Alpha and the Delta Sigma Theta.

THE COLLEGE LITERARY SOCIETY

The Kappa Psi Kappa Forensic and Literary Clubs, designed to stimulate interest in public speaking and literature, is composed of college students who have distinguished themselves in public performance in these fields. This club, assisted by the college students as a whole, who act as associate members, constitute the center of the extra curriculum activities of the college, and is active in promoting the intellectual and cultural development of the institution.

In addition to the societies mentioned above there are four well organized clubs: the Dramatic Club, the Glee Club, the Athletic Club, the French Club, the Social Science Club, the Botany Club and Mathematics Club. These clubs afford the students a wonderful opportunity for development.

There are two technical societies, in which special topics in connection with agriculture, mechanics and chemistry are considered in a manner conducive to independent thought and research.

RELIGIOUS ACTIVITIES

It will be the purpose of the college to maintain a high moral tone and develop a broad, tolerant religious spirit among the students. In this connection there is a well organized Y. M. C. A. and Y. W. C. A., which meet twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. Sunday school is conducted every Sunday during the school year. All religious services will be free from sectarianism.

INDUSTRIAL MUSEUM

An industrial museum has been started and already valuable collections of work done by students are to be seen. We have collections representing the work in carpentry, blacksmithing and the various trades; also specimens from the Agricultural, English and Dairy departments. Such articles for exhibit are collected every month.

THE COLLEGE BAND

The College Band of more than thirty pieces occupies an important place in the life of the Institution. Instruction by an expert Bandmaster is given in all band instruments. A splendid opportunity is thus offered competent and worthy students to learn band music without extra expense to themselves.

Membership in the band is open to regular students of the College.

THE COLLEGE RADIO STATION

The College has established an Amateur Radio Station which is a part of the Electrical Laboratory. The Radio Department contains two detector-two-step short wave receivers, one Aero Screengrid four tube receiver, two Hartley high C transmitters with power supply and filters, a General Radio type 558 wavemeter, a television receiver, and all the necessary equipment needed to operate the above apparatus. The call letters of Station are W4JW. Students of the College are eligible for membership in the A. and T. Radio Club from which is chosen the staff of station operators.

The station is a member of the American Radio league and the Army Amateur Radio Relay System. It has exchanged messages with all parts of the United States and its insular possessions, and many foreign countries.

OPPORTUNITIES FOR NURSE TRAINING

The School of Nurses of the L. Richardson Memorial Hospital has established an affiliation with the A. and T. College, which makes it possible for young women who have completed their courses in nurse training to receive degrees from A. and T. College when they shall have met the College requirements for graduation. This should take from one to two years of additional study.

In recent years there has been a great increase in the number of hospitals established for Negroes, which brings about a corresponding demand for trained nurses. There is a great demand for nurses with college training to serve as superintendents of hospitals and in other executive positions. It is, therefore, hoped that a large number of young women will take advantage of the opportunities offered in this field.

THE FOLLOWING SCHOLARSHIPS AND PRIZES WILL BE AWARDED IN 1932-1933

COLLEGE SCHOLARSHIPS

The college will grant a scholarship for one year to any student who makes an average grade of "A" for the three-quarters of the preceding school year. This scholarship will pay tuition and can be used for no other purpose.

THE SEBASTIAN SCHOLARSHIP

Dr. S. P. Sebastian, of Greensboro, offers a scholarship of \$50.00 to the student completing three years in College Course

at A. and T. College, with best record in deportment and scholarship.

This scholarship is to apply on school expenses at A. and T. College, and will be available September 16, 1932.

Winner, 1931, Fred A. Williams.

PRIZES

A prize of \$3.00, known as the Cone Cash Prize, will be given to the student who submits the most practical, original suggestion for the improvement of college affairs.

MEDALS

The John Merrick Medal will be awarded to the student completing the full mechanical course with the best four-year record in the college department.

Winner, 1931, Greene T. Swinson.

The M. F. Spaulding Medal will be awarded to the student completing the full four-year course in agriculture with the best record.

Winner, 1931, Fred Allen Williams.

The Saslow's, Inc., Medals will be awarded (a) to the member of the graduating class who completes the four-year course in the Science College with best record and (b) to the student who graduates with the best record in Social Sciences.

Winners, 1931, (a) William H. Whitted, (b) Elister L. Peterson.

The Simpkins Medal in Natural Sciences shall be awarded annually to the student who completes the first two years of work in this college with the best record. The medal shall be awarded under the following conditions:

(a) To the student who makes the best record in Natural Sciences, no grade in which can be below "B."

(b) The best record in General Inorganic Chemistry (not less than 10 hours).

(c) The best record in other Natural Sciences (not less than 10 hours, 5 of which must be in some natural science other than Chemistry).

Winner, 1931, W. H. Monroe.

THE KAPPA PHI KAPPA KEY

The Kappa Phi Kappa Key was first awarded in 1928 by the Kappa Phi Kappa debating society. Since that year the key has been offered in honor of the late Mrs. Ophelia Chandler, of Asheville, by her son, Harold B. Chandler, B.S., '28.

The key is awarded to the member, or members, of the graduating class who have been speakers on the college debating team for two years.

Winners, 1930, Maceo Patterson and Jesse Lee Connor.
1931, No one qualified.

DEBATING TEAM, 1932

<i>Affirmative</i>	<i>Negative</i>
C. W. Williamson	Collins Hinton
Hattie Diffay	Hazel Whitlock
Alternative	Alternative
E. J. Jones.	Clifton Saunders

SUMMER SCHOOL

In Point of Continuous Service the Oldest Summer School in the Country for Negroes

The thirty-fifth annual summer session of the A. and T. College Summer School will begin June 6, 1932, and continue for twelve weeks.

Aside from the splendid opportunity which the Summer School offers teachers in service to raise their certificates and thereby obtain better salaries, the college makes it possible for the ambitious teacher to obtain a standard degree by attending the summer school.

Students who are in college may shorten their stay in college by attending summer school. Students from other institutions may enter the summer session for credit in their respective institutions, by permission from either the President or Dean, of their respective colleges. Such students will not be required to present a complete record of their previous training, but will be required to present a signed statement from the President or Dean indicating the summer courses for which credit will be allowed.

EVENING SCHOOL

The college conducts an Evening School for Teachers in service, and others who can qualify for the courses offered. All evening courses are the same as such courses that are offered in the regular day classes, and may be offered towards a degree. Admission to the Evening School is the same as for the same school in the regular day classes. The same amount of work is required and a similar grade of work is required for the same amount of credit.

EXPENSES

Parents and guardians are advised that all sums of money intended to defray expenses of students should be sent to the Bursar of the college. If this suggestion is followed, it will not be possible for a student to spend for other purposes money sent him to meet his school bills. School bills must be paid by cash, postoffice money order, or bank draft. Personal checks are not accepted.

Although it is the aim of the College to furnish as much employment as possible to assist students in defraying expenses, no promise nor guarantee can be made in advance to furnish such work.

Students who work during the day and attend school at night will be given an opportunity to earn twenty-two dollars a month. This will meet their current monthly expenses; but the first month must be paid in cash in the same way as day students.

No money paid on school bills will be returned except such as may be paid in advance of the current month, and no student will be credited with fractional parts of monthly payments, except that students entering may make their initial payment to the first of next month.

Positively no students will be allowed to enter any department of the college without paying in cash the first month's expenses, as stated below.

EXPENSES AND FEES

Boarding students entering for the first time should be prepared to make the following payments:

Board, Lodging, Tuition and Maintenance	\$21.50
Laundry	1.00
Lecture Fee	2.50
Dining Hall Fee	1.00
Library Fee	3.00
*Registration Fee	3.00
Medical Fee	3.00
Athletic Fee	7.00
†Incidental Fee	2.50
Laboratory Fee (Maximum)	4.00
College Register Fee	1.00
Mail Box Fee .....	.50
Total	\$50.00

*Registration fee for former students \$1.00.

†Incidental fee will be returned in full or proportional part to students at end of school year, provided breakage does not exceed full amount paid. This fee only provides for building and campus equipment, and does not cover special laboratory equipment.

A student boarding and lodging in the city and who is not a legal resident of Greensboro will make the following entrance payments:

†Tuition and Maintenance	\$ 8.00
Library Fee	3.00
Lecture Fee	2.50
*Registration Fee	3.00
Athletic Fee	7.00
†Incidental Fee	2.50
College Register Fee	1.00
Laboratory Fee (Maximum)	4.00
Medical Examination Fee	1.00
<hr/>	
Total	\$32.00

Monthly Payments—Boarding Students

Boarding, Lodging, Tuition and Maintenance	\$21.50
Laundry	1.00
<hr/>	
Total	\$22.50

Monthly Payments—Day Students

	Non-Residents of Greensboro	Legal Residents of Greensboro
Tuition and Maintenance	\$8.00	\$6.00

TERM PAYMENTS

(Fees Payable at the Beginning of Each Term)

Biology Lab.	\$ 3.00
Bacteriology Lab.	3.00
Dairy Lab.	2.00
Botany Lab.	3.00
Chemistry Lab.	4.00
Physics Lab.	3.00
Zoology Lab.	3.00
Seeds Lab.	2.00
Soils Lab.	2.00
Horticulture Lab.	2.00
Drawing Fee	1.00
Commercial Course	4.00
Electrical Engineering	3.00
Electricity and Plumbing	2.00

*Registration fee for former students \$1.00.

†Tuition and Maintenance for Legal Residents of Greensboro \$6.00.

†Incidental fee will be returned in full or proportional part to students at end of school year, provided breakage does not exceed full amount paid. This fee only provides for building and campus equipment, and does not cover special laboratory equipment.

Machine Shop Practice	3.00
Contracting and Building Fees:	
Masonry	4.00
Carpentry	3.00
Auto Mechanics	5.00
Blacksmithing	3.00
Carpentry	3.00
Masonry	4.00
Shoemaking	3.00
Tailoring	5.00

Other Fees

Registrar's Fee (for each extra transcript of a student's record)	\$ 1.00
Fine Per Day for Late Class Registration, each Quarter .....	.50
Music (two lessons per week and use of Piano for practice) per month	4.00

Note: All fees and bills are payable in advance. Make all postoffice money orders, bank drafts and cashier's checks payable to A. and T. College. Personal checks are not accepted, unless certified.

SCHEDULE OF STUDENT PAY DAYS FOR 1932-1933

September 12th
 October 9th
 November 6th
 December 2nd
 January 4th—(Laboratory Fees for Winter Quarter Due)
 February 1st
 March 1st
 April 1st—(Laboratory Fees for Spring Quarter Due)
 May 1st

LAUNDRY

The college operates a well-equipped steam laundry for the benefit of the students. Each boarding student is therefore required to have at least a dollar's worth of laundry done each month.

These charges are payable strictly in advance.

Students at the time of the advance payment will be given receipts, which will admit them to the class rooms, work shops and dining hall when properly signed.

In addition to the above expenses, the cost of textbooks

must be considered. This will amount to about \$12.50 per year.

Board, lodging, medical fee, tuition and incidental fee must be paid before the rooms are assigned and tickets of admission to class rooms, work shops and dining hall are issued.

Parents should see to it that bills are paid on time, as students will not be permitted to attend their classes unless their bills are paid.

Each student should bring two quilts or blankets, one counterpane, four sheets, two pillow cases, six towels, four napkins, etc.

DEPARTMENT OF AGRICULTURE

M. F. SPAULDING, *Director*

The School of Agriculture aims to educate efficient farmers, teachers of agriculture, agricultural extension workers, teachers of Home Economics and leaders in other lines of agricultural activities. Courses are given in the various departments of technical agriculture.

The School of Agriculture is well equipped to train men and women in horticulture, dairy manufacturing, dairy production, poultry production, rural engineering, rural sociology, rural education, farm crops and soils, floriculture and animal production.

EQUIPMENT

The new Agricultural Building provides ample room for all agricultural class and laboratory activities. The third floor is occupied by the chemistry laboratories; two large rooms are equipped on the second floor for the botanical and zoological laboratories; the bacteriology is on the first floor, and the entire basement for laboratory work in soils, farm crops, geology, horticulture and dairy manufacturing, etc.

In addition to the laboratories and class rooms provided for in this building, there is also a museum, which is to contain hundreds of specimens of normal and diseased plants, insect pests, life histories, etc., found throughout the State of North Carolina and in many parts of the entire country.

CAMPUS

The campus, containing approximately twenty-eight acres, offers an opportunity for practice in landscape gardening, vegetable growing, etc. There are also two splendid greenhouses on the campus that make it possible to give instruction and practice in greenhouse management, a very popular and promising feature of our agricultural activities.

FARMS

The college has two farms. The old farm is located on State Highway No. 10, and also on the Southern Railroad from Greensboro to Goldsboro, about one mile from the campus, and contains one hundred and three acres. There are on this farm a modern poultry plant, modern piggery, modern

dairy barn, an orchard containing over three hundred and fifty trees of several kinds of fruits, and about two hundred small fruits, which contains several varieties of raspberries, dewberries, grapes, etc., a thirty-two acre permanent pasture, implement sheds and barns. There is also a two-story brick dormitory for the dairymen, farm superintendent and farm project boys.

The new farm contains one hundred and forty-three acres and is located on the McConnell road about one mile south of the old farm. It has a very large shed on it for sheltering the farming implements.

These farms are well equipped with modern implements necessary for successful farming under North Carolina conditions. The farms are ideal in size because they give an opportunity for instruction and practice in handling small farms on an intensive basis, the type of farming that will inevitably be followed in this country.

SPECIAL WINTER SHORT COURSE

Several short courses are offered to meet the needs of young men on the farm who find it impossible to take one of the regular courses. They are offered during the winter term at a time when it is most convenient for the farmers to leave home for a few weeks. There are no entrance requirements for these courses.

DISTRICT FARMERS' MEETING

The annual farmers' meeting for the western district of North Carolina, including Guilford County, will be held on February 5, 1933. The purpose of this meeting is to help farmers make their spring plans. Prominent speakers will address the farmers and dinner will be served them on that day. This meeting is not to take the place of the annual Farmers' Conference in August.

FOUR-YEAR COLLEGE COURSE IN AGRICULTURE

This course leads to the B.S. degree in Agriculture. The entrance requirements are the same as given on page 20.

It will be to the advantage of students desiring to take this course to be able to offer as many high school units in Agriculture and high school Chemistry as possible.

REQUIREMENTS FOR GRADUATION

The successful completion of one of the prescribed curricula comprising a minimum of 196 term credits and a thesis

are required. In addition, the student must have a thorough, practical knowledge of farm activities and rural life conditions before receiving his degree. Students who have not had this experience before entering the course will be given an opportunity to get it during their college career.

THE AIM

This course aims to give the scientific, or technical training (based on a practical knowledge of farm activities) that will enable those completing it to hold positions of trust as owners and conductors of farms, teachers of agriculture, extension workers, teachers of home economics and specialists. Aside from the instruction in technical agriculture the course gives a broad training in the sciences related to agriculture, the liberal and professional subjects.

THE AGRICULTURAL ASSOCIATION

All agricultural students are required to attend the bi-monthly meeting of the Agricultural Association. Absences from these meetings will be treated as absences from any other college appointments.

SEMINAR

All students registered in the College Senior Class will be required to attend the weekly seminar. Special work in any branch of agriculture on problems under investigation by the department, or of special interest to the student of agriculture will be considered. Each student will be required to present a paper, and write a thesis on some form of investigation.

CURRICULA

The curriculum in General Agriculture aims to give the student instruction in courses which will prepare him for intelligent, practical farming, for farm management, and extension service.

The curriculum for Teachers of Agriculture is designed to prepare the trainee to qualify under the provisions of the Smith-Hughes Law to occupy positions as teachers of vocational agriculture in the State of North Carolina and the south. Students who expect to teach vocational agriculture will be required to meet the professional requirements which shall be :

1. Educational Psychology 3 semester hours
2. Principles of High School Teaching
or
Problems in Secondary Education.. 3 semester hours
3. Materials and Methods (Two fields) 6 semester hours
4. Observation and Directed Teaching 3 semester hours
5. Electives 6 semester hours

The curricula for Agricultural Specialists are intended for students who have decided to prepare for work in some special field of agriculture. The school of agriculture is equipped to train men in the fields of Dairying, Greenhouse Management, Agronomy and Animal Husbandry.

CURRICULUM FOR TEACHERS OF AGRICULTURE

Freshman Year

	Fall	Winter	Spring
Comp. and Rhetoric, Eng. 211, 212 .	5(5-0)	5(5-0)	.....
Gen. Chem., Qual. Anal., Chem. 111, 112, 113	5(3-4)	5(3-4)	5(2-6)
Gen. Farm Poultry Problems, Poul. 111 . . . . .	.....	4(2-4)	.....
Soil Mgt., Agron. 111	3(2-2)	.....	.....
Principles of Farm Dairying, Dairying . . . . .	.....	.....	5(3-4)
Vegetable Growing, Hort. 111 . . . . .	.....	.....	4(2-4)
Agron. 112, Field and Forage Crops . . . . .	.....	3(2-2)	.....
Gen. Bot., Advanced Bot., Bot. 111, 112 . . . . .	.....	3(2-2)	3(2-2)
Ed. 211, 212, 213	1(1-0)	1(1-0)	1(1-0)
Mil. Sc., 211, 212, 213	1(0-2)	1(0-2)	1(0-2)

Sophomore Year

Organic Chem., Chem. 112, 123	5(2-6)	5(2-6)	.....
Nature and Properties of Soils, Agron. 121. . . . .	.....	4(3-2)	.....
Diseases of Farm Animals, Breeding and Judging, An. Nut., An. Hus. 121, 122, 123	3(2-2)	3(2-2)	3(2-2)
Home Grown Fruits, Farm Beautifi- cation, Hort. 121, 122	3(2-2)	.....	4(2-4)
Eng. 222, 223 . . . . .	.....	5(5-0)	5(5-0)
Gen. Bact., Bact. 121	5(3-4)	.....	.....
Ed. Psychol., Ed. 231	5(5-0)	.....	.....
Plant Phy., Bot. 122 . . . . .	.....	.....	3(2-2)
Mil. Sc. 221, 222, 223	1(0-2)	1(0-2)	1(0-2)

Junior Year

	Fall	Winter	Spring
Int. Econ., Agr. Econ., Bus. Law, Econ. 231, 271, B. A. 236	5 (5-0)	3 (3-0)	3 (3-0)
Prob. Sec. Ed., Ed. 237, 238 .....	.....	3 (3-0)	3 (3-0)
Geology 131 .....	.....	5 (4-2)	.....
Farm Management, Econ. 273 .....	.....	.....	3 (3-0)
Incubation and Brooding, Poul. 131, 132 .....	.....	3 (1-4)	3 (1-4)
Cotton, Tobacco, Agron. 131, 132 ..	3 (2-2)	.....	3 (2-2)
Admin. and Sup., Ed. 234 .....	.....	3 (3-0)	.....
Electives: In Agr. or related subject. Vocational Ed., Ed. 331			
Diseases, Insects and Pests, Biol. 131			
Rural Sociology, Soc. 243 .....	.....	.....	3 (3-0)
Dairy 121			
Geog. 241			

Senior Year

Material and Methods of Teaching Vocational Agriculture, Ed. 271, 272, 273	2 (2-0)	3 (3-0)	2 (2-0)
Observation and Practice Teaching Vocational Agriculture, Ed. 274, 275, 276	2 (0-4)	3 (0-6)	1 (0-2)
Seminar without credit			
Electives (6 hrs. R. Eng. and Field of Agr.)	13	11	10
Thesis			

MAJOR IN GENERAL AGRICULTURE AND EXTENSION SERVICE*

Junior Year

Rural Sociology, Sociology 243 .....	.....	.....	3 (3-0)
Agricultural Econ., Business Law, B. A. 231, 271, 236	5 (5-0)	3 (3-0)	3 (3-0)
Farm Marketing, Farm Mgt., Econ. 263, 273 .....	.....	5 (5-0)	3 (3-0)
Incubation, Brooding, Poultry 131, 132 .....	.....	3 (1-4)	3 (1-4)
Tobacco, Cotton, Agronomy 131, 132	4 (2-4)	.....	4 (2-4)
Diseases, Insects, Pests, Biology 131. ....	.....	.....	3 (2-2)
Electives	7	9	0

*Students elect majors in Junior year.

<i>Senior Year</i>			
	Fall	Winter	Spring
*Extension Service, Observation and Practice in Extension Service, Ed. 278, 279	5(5-0)	5(0-10)	.....
Community Organization, Sociology 244 .....	.....	4(4-0)	.....
Herd Management, Dairying 143...	.....	.....	4(2-4)
Seminar	1(1-0)	1(1-0)	1(1-0)
Thesis .....	.....	.....	3(0-6)
Electives	4	3	8
	<u>10</u>	<u>13</u>	<u>16</u>

CURRICULUM FOR AGRICULTURAL SPECIALISTS

Farm Machinery, Farm Shop, Road Building and Drainage, Rural Engineering 121, 122, 123	3(2-2)	3(0-6)	4(2-4)
Journalism, English 231	3(3-0)	.....	.....
Ed. Psychology, Ed. 231	5(5-0)	.....	.....
Plant Physiology, Botany 122, or Comparative Anatomy, Biol. 122 .....	.....	.....	3(2-2)
General Bacteriology, Bact. 121....	.....	4(2-4)	.....
General Zoology, Biology 121 .....	.....	.....	4(3-2)

Junior Year

Rural Sociology, Sociology 243 .....	.....	.....	3(3-0)
Introductory, Agricultural Econ., Bus. Law, Econ. 231, 271, 239...	5(5-0)	3(3-0)	3(3-0)
Farm Marketing, Econ. 263 .....	.....	5(5-0)	.....
Agricultural Major	6	6	6
Electives	9	6	7
	<u>20</u>	<u>20</u>	<u>19</u>

Senior Year

Agricultural Major	6	6	6
Seminar .....	.....	.....	3
Thesis	1	1	1
Electives	3	6	6
	<u>10</u>	<u>13</u>	<u>16</u>

*Students interested in general agriculture may select other courses.

MAJOR IN DAIRY HUSBANDRY

Junior Year

	Fall	Winter	Spring
Comparative Anatomy and Physiology, (Biol. 121) .....	.....	4(3-2)	.....
Embryology, (Zool. 123) .....	.....	.....	3(2-2)
Agricultural Economics, (Ec. 271)..	5(5-0)	.....	.....
Dairy Bacteriology, (Bact. 132)....	.....	.....	5(3-4)
Genetics, (Zool. 134) .....	.....	3(3-0)	.....
Agronomy, (Soils 121) .....	.....	4(3-2)	.....
Agronomy, (Soils 122, Fertilizers)..	5(3-4)	.....	.....
Animal Husbandry, Advanced Study of Dairy Breeds, (A. H. 131)...	.....	.....	3(2-2)
Electives	4	3	3

Senior Year

Animal Husbandry, Pork Production (A. H. 124) .....	.....	3(3-0)	.....
Agricultural Economics, (Econ. 245) .....	.....	5(5-0)	.....
Animal Husbandry, Milk Secretion, (A. H. 141)	2(2-0)	.....	.....
Animal Husbandry, Dairy Herd Management, (A. H. 143)	4(2-4)	.....	.....
Animal Husbandry, Animal Breeding, (A. H. 144) .....	.....	3(3-0)	.....
Dairy Industry, Commercial Dairying, (Dy. Ind. 145) .....	.....	.....	2(2-0)
Dairy Industry, Market Milk, (Dy. Ind. 146) .....	.....	.....	3(2-2)
Seminar .....	.....	1 .....	.....
Thesis .....	.....	1 .....	.....
Commercial Law, 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
Electives	5 .....	.....	5

TWO-YEAR COURSE IN AGRICULTURE

This course is designed for farmers and prospective farmers who cannot leave their work for a long period, but who are desirous of improving their condition by learning how to produce and how to market. Students may enter this course at the beginning of any term.

Note:—Credits: Listed under terms, the figure to the extreme left indicates the term credits. The left-hand figure within the parentheses indicates the number of recitations per week; the right-hand figure indicates hours of laboratory per week.

Students taking the two-year course will be encouraged to select some phase of agriculture to which they are to give special study during the entire course. This work may be in Dairying, Field Crops, Horticulture, Poultry Production, and Swine Production. Projects in any of these phases of work must be of a nature approximately that of a real farming enterprise.

OUTLINE OF COURSES

First Year

	Fall	Winter	Spring
Com. and Rhetoric, Eng. 211, 212..	5(5-0)	5(5-0)	.....
Soil Mgt., Field and Forage Crops			
Agronomy 111, 112	3(2-2)	4(3-2)	.....
Swine, Horse and Mule Prod., An.			
Hus. 111	3(2-2)	.....	.....
Principles of Farm Dairying, Dairy-			
ing 111 .....	.....	.....	5(3-4)
Gen. Farm Poultry Problems, Poul-			
try 111 .....	.....	3(2-2)	.....
Vegetable Growing, Hort. 111 .....	.....	.....	4(2-4)
Home Grown Fruits, Farm Beautifi-			
cation, Hort. 121, 122 .....	.....	3(2-2)	4(2-4)
Agricultural Electives	4 .....	.....	4

Second Year

Nature and Properties of Soils,			
Agronomy 121 .....	.....	4(3-2)	.....
Diseases of Farm Animals, Breeding			
and Judging, Animal Nutrition,			
An. Hus. 121, 122, 123	3(2-2)	3(2-2)	3(2-2)
Farm Marketing, Farm Mgt., Eco-			
nomics 263, 273 .....	.....	5(5-0)	3(3-0)
Farm Machinery, Farm Shop, Road			
Building, Rural Engineering 121,			
122, 123	3(2-2)	3(2-2)	3(2-2)
Tobacco, Cotton, Agronomy 131, 132	4(2-4)	.....	4(2-4)
Agricultural Electives	4 .....	.....	3

Description of courses will be found under the various heads as described in the regular course of instruction.

WINTER COURSE

The winter courses are business and occupational courses, not academic, hence there are no examinations for admission. However, in order that the student may be able to make the

best use of the instruction it is necessary that he should have had a good common school education.

The only requirements are that they meet those of general admission. However, they are advised to review their mathematics and English, as quite often they are handicapped because of deficiency in same.

The courses are open to both men and women above the age of 16. Students are advised to come two years instead of attending only one session. They are advised to enter one of the various practical divisions so as to see the advantage of farm machinery and modern equipment in connection with the various farming operations.

Students who show a desire for special training will be given special courses in the following:

Soils and Fertilizers; Field Crops; Dairying; Poultry Production; Swine; Horticulture.

REGISTRATION

On Wednesday, January 4, beginning at 9 o'clock, all students should report for registration at the office of the Registrar of the College.

METHODS OF INSTRUCTION

Instruction in the winter courses is given by lectures, by such practical work (laboratory practice) in the various agricultural operations as can be conducted at that time of the year, and sometimes by trips or excursions to points of special interest.

HOME ECONOMICS

The course as outlined below is arranged to meet the needs of the following groups of students: Those who wish to teach, those who wish to enter graduate courses leading to technical or professional work, and those who wish to apply their knowledge to various problems of home life, or in fields of industry and social service in which an understanding of home economics subjects is essential to intelligent action.

That training given is as varied as it is broad. It includes a knowledge of the laws of health; an understanding of the sanitary requirements of the home; the study of values, both absolute and relative, of the various articles used in the home; the wise expenditure of money, time, and energy; the scientific principles underlying the selection and preparation of food; the right care of children; and the ability to secure efficient service from others.

A four-year college course in home economics will lead to a B.S. degree in Home Economics.

SUGGESTED MAJOR IN HOME ECONOMICS

Freshman Year

	Fall	Winter	Spring
English Composition, Eng. 211, 212.	5(5-0)	5(5-0)	.....
General Chemistry, Chem. 111, 112.	5(3-4)	5(3-4)	.....
Qualitative Analysis, Chem. 113 ...	.....	.....	5(3-4)
Applied Art I, Art 211	3(0-6)	.....	.....
Costume Design, Art 212 .....	.....	3(0-6)	.....
House Furnishings, Art 213 .....	.....	.....	2(2-2)
Clothing I, Clothing 211	3(0-6)	.....	.....
Clothing II, Clothing 212 .....	.....	3(0-6)	.....
Physical Education 211, 212, 213...	1(2-0)	1(2-0)	1(2-0)
Music 211, 212, 213	1(2-0)	1(2-0)	1(2-0)
Home Economics Problems, H. E. 211	1(1-0)	.....	.....
Hygiene and Home Nursing, H. E. 212 .....	.....	.....	3(2-2)
Household Physics, Physics 211 ...	.....	.....	4(3-2)

Sophomore Year

Survey of English Literature, Eng. 222, 223	5(5-0)	5(5-0)	.....
Organic Chemistry, Chem. 122, 123.	5(3-4)	5(3-4)	.....

	Fall	Winter	Spring
Foods I, Foods 221	5 (2-6)	.....	.....
Foods II, Foods 223 .....	.....	.....	5 (2-6)
General Psychology, Edu. 221, 222..	.....	4 (4-0)	4 (4-0)
Zoology, Biol. 111 .....	.....	4 (3-2)	.....
Embriology and Physiology, Biol. 121	.....	.....	4 (3-2)
Textiles, Clothing 223 .....	.....	.....	3 (2-2)
Houshold Management, H. E. 223 ..	.....	.....	3 (2-2)
Physical Education, 221, 222, 223...	1 (2-0)	1 (2-0)	1 (2-0)
Music 221, 222, 223	1 (2-0)	1 (2-0)	1 (2-0)

Junior Year

French 211, 212, 213	5 (5-0)	5 (5-0)	5 (5-0)
Human Nutrition, Foods 231	5 (5-0)	.....	.....
Applied Art II, Art 231	3 (0-6)	.....	.....
Costume Design II, Art 232 .....	.....	3 (0-6)	.....
Education 231	3 (3-0)	.....	5 (5-0)
Economics 231 .....	.....	5 (5-0)	.....
U. S. History, Hist. 221 .....	.....	.....	5 (5-0)
Economics of the Household, H. E. 233 .....	.....	.....	3 (3-0)
Clothing III, Clothing 232 .....	.....	3 (0-6)	.....
Bacteriology, Biology 131 .....	.....	4 (3-2)	.....

Senior Year

Dietetics, Foods 241	5 (2-6)	.....	.....
Dinner Work, Foods 242 .....	.....	3 (0-6)	.....
Child Welfare, H. E. 242 .....	.....	3 (2-?)	.....
Modern Family, H. E. 243 .....	.....	.....	3 (3-0)
Sociology .....	.....	5 (5-0)	.....
Clothing IV, Clothing 243 .....	.....	.....	3 (0-6)
Interior Decoration, Art 242 .....	.....	3 (0-6)	.....
Spec. Meth. of Teaching Home Eco. Edu. 252	5 (5-0)	.....	.....
Supervised Household Mgt., H. E. 241	3 (2-?)	.....	.....
Federal Government, Pol. Sci. 231..	5 (5-0)	.....	.....
Supervised Practice Teaching .....	.....	5 (2-?)	.....
Electives .....	.....	.....	12 (?-?)

DEPARTMENT OF MECHANIC ARTS

G. L. WASHINGTON, *Director*

ORGANIZATION

The School of Mechanic Arts of the North Carolina Agricultural and Technical College is organized to prepare students for, and to meet the increasing demand of industry for leaders and skilled workmen in the various technical professions and trades. The college offers four-year courses in Architecture, Engineering, and Contracting and Building, leading to the degree of Bachelor of Science. In addition, it offers a special course for Industrial Arts teachers. Special courses are also offered in Physics and Mathematics and Art Education.

Mechanical Engineering, Architecture, and Contracting and Building are the major courses of the college. Two definite objectives in the engineering courses besides adequately grounding the student in mathematics, science and engineering fundamentals, are to develop a greater social insight and a larger sense of social responsibility in order that the profession may gain recognition for more than its technical proficiency; and to emphasize in the curriculum those elements which make for a sound, general education and a comprehensive knowledge of business and business principles. Our faculty, engineering laboratories and pure science equipment enable us to offer four-year college courses in the above professions.

For the students not qualified to pursue college work in engineering, architecture and building, we offer the Smith-Hughes Trade School course, which is designed to prepare the student in two to three years to enter the skilled trades.

OUTLINE OF COURSES

School of Mechanic Arts

- Mechanical and Electrical Engineering.
- Architecture.
- Contracting and Building.
- Industrial Arts, Teacher Training.
- Special Courses.
- Theoretical and Applied Physics.

Smith-Hughes Trade School

- Two-Year Courses in Trade.

DIVISIONS OF SCHOOL OF MECHANIC ARTS*College*

Department of Mechanical and Electrical Engineering.
Department of Architecture.
Department of Building Construction.
Department of Physics.
Department of Mathematics.
Department of Art.

Mechanic Arts Division

Automobile Mechanics.
Shoemaking and Leather Work.
Carpentry and Building Construction.
Machine Tool Practice.
Tailoring.
Brick and Concrete Masonry.
Forge Shop Practice.
House Wiring.
Mechanical Drawing.

BUILDINGS

The School of Mechanic Arts is located in five buildings. The Mechanical Building is a two-story brick building with basement. On the top floor of this building are located the offices of the Dean and professors, drawing rooms, seminar room, and electrical laboratory. Located upon the first floor are the shoemaking and leather, carpentry, machine tool, and tailor shops. In the basement of this building are located the brick and concrete masonry.

The Automobile Mechanics Building is a fireproof, one story building recently built and equipped for advance automobile mechanics practice. It is located on the main highway and is open for service in connection with instruction. It contains lecture room, class room, office, battery charging room, locker room, tool room, auto mechanics laboratory, and storage room for automobiles.

The Forge Shop is a one-story brick building containing individual forges and forge and blacksmith shop machinery.

The College Physics Laboratories are located on the third floor of the Agricultural Building; also the Physics Department office is located on the same floor of this building. The Sand and Cement Testing Materials Laboratory is temporarily located in the basement of the Agricultural Building.

A central heating plant of 600 horsepower boilers has been built and equipped with modern heating and power appliances; this plant furnishes the students of the Technical College, engaged in the study of power plant equipment and operation, an opportunity to study the operation of the most modern steam and power plant. This plant is housed in a new brick building attached to which is the college steam laundry.

EQUIPMENT

MECHANIC ARTS DIVISION

In the past few years the State of North Carolina has invested many thousands of dollars in equipment for the Mechanic Arts Divisions. Each division has among its equipment the latest design of modern machinery and tools for each particular line of work. The shops and industries so equipped are the automobile mechanics, shoe and leather work, carpentry and building, machine tool, tailor, brick and concrete, forge, plumbing and house wiring, and laundry management.

DRAWING ROOM

Our Drawing Department is one of the best to be found anywhere in the State. It has been enlarged, redesigned and equipped with the latest design in equipment. It has a capacity for 60 students working at one time. College students must secure their own drafting instruments.

ART STUDIO

Classes in freehand drawing and water color painting are taught in our Art studio. There is equipment for the accommodation of classes of twenty students.

PHYSICS

The College Physics Laboratories were designed along with the building in which they are located, and every feature is modern. The splendid equipment of these laboratories enables us to perform the representative, standard experiments included in the courses of study in physics for two years of college physics. The department is equipped with photographic equipment and equipment for technical electrical measurements for advanced study in applied physics.

SURVEYING

The equipment for surveying consists of transit, level, and stadia along with the minor equipment necessary for field work in this branch of science. Also included are instruments for drawing room work in surveying.

ELECTRICAL ENGINEERING LABORATORY

The Electrical Laboratory contains a $6\frac{1}{2}$ KVA, 3-, 6-, and 12-phase Westinghouse A.C. synchronous motor, a 5 H.P. Westinghouse D.C. motor, two $\frac{1}{4}$ H.P. single-phase induction motors, a 1 KVA A.C. motor, a $1\frac{1}{4}$ H.P. D.C. motor, a 5 KVA 3-, 6-, and 12-phase generator, a $6\frac{1}{2}$ KVA D.C. generator, a 1 H.P. Hobart D.C. generator, a 3 H.P. single-phase motor, a 2 H.P. 3-phase induction motor, a 1 KVA A.C. generator, a 5 KVA motor-generator Westinghouse set for converting from A.C. to D.C. or from D.C. to A.C., and a 1 KVA Hobart Battery Charging Unit. All of this apparatus is installed and equipped with meters, brakes, and loading devices for testing. In addition the laboratory contains D.C. and A.C. Watt hour-meters, potentiometer and meter for measuring currents and voltages.

CEMENT AND SAND TESTING MATERIALS LABORATORY

The Cement and Sand Testing Materials Laboratory of the Mechanical Engineering Department is equipped to perform tests on sand and cement according to tests made standard by the American Society for Testing Materials. The sieves and machine for making sieve or mechanical analysis of sand and cement are of the latest Tyler design. Tensile and compression machines, moulds, etc., are Riehle design.

POWER PLANT

The Power Plant is under and a part of the School of Mechanic Arts; its equipment is used for instructional purposes. The plant contains four boilers, making a total of 600 rated horsepower, boiler feed pumps, vacuum pumps, feed water heater, etc., all of which is modern, being only recently installed.

REFRIGERATION

An Ottenheimer ammonia refrigerator system has been installed at the college, giving the students of mechanical engineering an opportunity to study operation of mechanical refrigeration as an augment to the work in thermodynamics.

ADMISSION TO THE TECHNICAL COLLEGE

The admission requirements are the same as those given for the entrance to freshman college class.

ADVANCED STANDING

Students who have attended colleges of approved standing will be given appropriate credit for work completed there, upon the presentation of the proper certificate to the Registrar, who will determine the credits for the curriculum which the student wishes to take.

REQUIREMENTS FOR GRADUATION

The requirements for graduation in architecture, engineering, of building construction are the satisfactory completion of all courses in one of the prescribed curricula (see tabulation of curricula on pages following).

The student must also own and possess certain books and instruments. This is not an additional expense, as the necessary equipment will be accumulated during his years in college.

SPECIAL STUDENTS

Special students are admitted by the Dean of this College who will see to the arrangement of their courses. Special students are understood to be applicants who desire to undertake special study without becoming candidates for degrees. They must evidence a sincere purpose to undertake and profit by the special study and must be of mature age. They must also give good reason for not entering regularly and for not undertaking one of the regular curricula.

CURRICULUM IN ARCHITECTURE

Freshman Year

	Fall	Winter	Spring
Algebra, Trig., Analytical Geom., Math. 311, 312, 313	5 (5-0)	5 (5-0)	5 (5-0)
Eng. 211, 212 .....	.....	5 (5-0)	5 (5-0)
Elements of Arch., Arch. 311 312, 313	3 (0-6)	3 (0-6)	3 (0-6)
General Phys., Phys. 311, 312, 313 ..	5 (4-2)	5 (4-2)	5 (4-2)
Descriptive Geometry, M. E. 314 ..	3 (1-4)	.....	.....

	Fall	Winter	Spring
Stereotomy, Arch. 314 .....	.....	3(1-4)	.....
Shades and Shadows, Arch. 315 .....	.....	.....	3(0-6)
Freehand Drawing, Art 311, 312 ..	3(0-6)	3(0-6)	.....
Water Color, Art 313 .....	.....	.....	3(0-6)
Freshman Lectures, Ed. 211, 212, 213	1(1-0)	1(1-0)	1(1-0)
Mil. Science, M. S. 211, 212, 213 ...	1(0-2)	1(0-2)	1(0-2)

Sophomore Year

Calculus, Math. 321, 322, 323	3(3-0)	3(3-0)	3(3-0)
Eng. 236 (or 233), 241	5(5-0)	5(5-0)	.....
Hist. of Architecture, Art 324, 325, 326	5(5-0)	5(5-0)	5(5-0)
Design, Arch. 321, 322, 323	5(1-8)	5(1-8)	5(1-8)
Surveying, Math. 324	4(2-4)	.....	.....
Perspective, Arch. 324 .....	.....	.....	3(0-6)
Art Appreciation, Art 327, 328, 329	1(1-0)	1(1-0)	1(1-0)
Military Science, M. S. 221, 222, 223	1(0-2)	1(0-2)	1(0-2)

Junior Year

Mechanics, M. E. 331	5(5-0)	.....	.....
Strength of Materials, M. E. 332 ...	.....	5(5-0)	.....
Structures, Arch. 334 .....	.....	.....	5(3-4)
Design, Arch. 331, 332, 333	5(0-10)	5(0-10)	6(0-10)
History of Ornament. Art 331	1(1-0)	.....	.....
Water Color, Art 332 .....	.....	3(0-6)	.....
Freehand Drawing, Art 333 .....	.....	.....	3(0-6)
Carpentry, Arch. 335	3(3-0)	.....	.....
Masonry, Arch. 336 .....	.....	3(3-0)	.....
Working Drawings, Arch, 337, 338, 339	3(0-6)	2(0-4)	3(0-6)
Materials of Engineering, M. E. 338	.....	2(2-0)	.....
Art Appreciation, Art 337, 338, 339	1(1-0)	1(1-0)	1(1-0)
*Teacher Training, Ed. 331, 332, 333	3(3-0)	3(3-0)	3(3-0)

Senior Year

Design, Arch. 341, 342, 343	6(0-12)	6(0-12)	9(0-18)
Structures, Arch. 344	5(5-0)	.....	.....
Concrete Design, Arch, 345 .....	.....	5(5-0)	.....
Heating, Ventilating, Plumbing, M. E. 3412 .....	.....	3(3-0)	.....
Lighting and Acoustics, Phys. 341...	.....	.....	3(3-0)
Figure Drawing, Art 342, 343	3(0-6)	3(0-6)	.....
Composition, Art 316 .....	.....	.....	2(0-4)

Commercial Law, B. A. 234 235, 236	3(3-0)	3(3-0)	3(3-0)
Architectural Practice, Arch. 346 ..	.....	.....	2(2-0)
*Teacher Training, Ed. 341 (342), ..			
343, 344	3(3-0)	3(3-0)	3(3-0)

CURRICULUM IN CONTRACTING AND BUILDING

Freshman Year

	Fall	Winter	Spring
Algebra, Trigonometry, Analytical			
Geometry, Math. 311, 312, 313 ..	5(5-0)	5(5-0)	5(5-0)
Eng. 211, 212 .....	.....	5(5-0)	5(5-0)
Descriptive Geometry, Math. 314 ..	3(1-4)	.....	.....
Materials of Construction, C. B. 311	3(3-0)	.....	.....
Plan Reading, C. B. 312, 313 .....	.....	4(2-4)	3(2-2)
Carpentry, C. B. 314, 315, 316	4(2-4)	5(2-6)	5(2-6)
Gen. College Physics, Phys. 311, 312,			
313	5(4-2)	5(4-2)	5(4-2)
Freshman Lectures, Ed. 211, 212, 213	1(1-0)	1(1-0)	1(1-0)
Mil. Science, M. S. 211, 212, 213	1(0-2)	1(0-2)	1(0-2)

Sophomore Year

Calculus, Math. 321, 322, 323	3(3-0)	3(3-0)	3(3-0)
Eng. 236 (or 233), 241	5(5-0)	5(5-0)	.....
Surveying, Math. 324	4(2-4)	.....	.....
Masonry, C. B. 321, 322, 323	5(2-6)	5(2-6)	3(1-4)
Elements of Arch., Arch. 311	3(0-6)	.....	.....
Stereotomy, Arch. 317 .....	.....	3(1-4)	.....
Perspective Drawing, Arch. 324 ...	.....	.....	3(0-6)
Foundations, C. B. 324 .....	.....	.....	3(3-0)
Electric Wiring, C. B. 325 .....	.....	4(2-4)	.....
Lathing, Plastering and Stucco, C. B.			
326 .....	.....	.....	5(2-6)
Art Appreciation, Art 327, 328, 329.	1(1-0)	1(1-0)	1(1-0)
Mil. Science, M. S. 221, 222, 223 ...	1(0-2)	1(0-2)	1(0-2)

Junior Year

Mechanics, M. E. 331	5(5-0)	.....	.....
Strength of Materials, M. E. 332 ...	.....	5(5-0)	.....
Structures, Arch. 334 .....	.....	.....	5(3-4)
Heating and Plumbing, C. B. 331 ..	5(3-4)	3(2-2)	.....
Carpentry, C. B. 332, 333, 334	5(2-6)	5(2-6)	5(2-6)
Masonry, C. B. 335 .....	.....	4(2-6)	.....

*Students desiring a North Carolina Teacher's Certificate must elect prescribed teacher training courses.

	Fall	Winter	Spring
Working Drawings, Arch. 337, 338, 339	3(0-6)	2(0-4)	3(0-6)
Principles of Accounting, B. A. 231, 232	5(5-0)	5(5-0)	.....
Art Appreciation, Art 337, 338, 339	1(1-0)	1(1-0)	1(1-0)
*Teacher Training, Ed. 331, 332, 333	3(3-0)	3(3-0)	3(3-0)

Senior Year

Reinforced Concrete, C. B. 341	4(2-4)	.....	.....
Testing Materials Laboratory, M. E. 349 .....	.....	2(1-3)	.....
Contracts and Specifications, M. E. 3411 .....	.....	5(5-0)	.....
Painting and Decorating, C. B. 342. ....	.....	3(1-4)	.....
Fireproof Construction, C. B. 343..	2(2-0)	.....	.....
Steel Construction, C. B. 344	2(2-0)	.....	.....
Sheetmetal Work, C. B. 345 .....	.....	3(2-2)	.....
Commercial Law, B. A. 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
Principles of Business, B. A. 231 ...	5(5-0)	.....	.....
Building Superintendence, C. B. 346, 347, 348	3(3-0)	3(3-0)	15(0-30)
Builders Cost Accountings, C. B. 349, 3410 .....	.....	3(3-0)	2(0-4)
*Teacher Training, Ed. 341 (342), 344	3(3-0)	3(3-0)	3(3-0)

CURRICULUM IN MECHANICAL ENGINEERING*Freshman Year*

Algebra, Trigonometry, Analytical Geometry, Math. 311, 312, 313 ..	5(5-0)	5(5-0)	5(5-0)
Eng. 211, 212 .....	.....	5(5-0)	5(5-0)
Descriptive Geometry, M. E. 314 ...	3(1-4)	.....	.....
Mechanical Drawing, M. E. 311, 312 .....	.....	4(0-8)	4(0-8)
General College Physics, Phy. 311, 312, 313	5(4-2)	5(4-2)	5(4-2)
Mil. Science, M. S. 211, 212, 213 ...	1(0-2)	1(0-2)	1(0-2)
Patternmaking, M. E. 317	3(0-6)	.....	.....

Note:—Credits: Listed under terms, the figure to the extreme left indicates the term credits. The left-hand figure within parentheses indicates the number of recitations per week; the right hand figure indicates the periods of laboratory work per week in the course.

*Students desiring a North Carolina Teacher's Certificate must elect prescribed teacher training courses.

Sophomore Year

	Fall	Winter	Spring
Calculus, Math. 321, 322, 323	3 (3-0)	3 (3-0)	3 (3-0)
Eng. 236 (or 233), 241	5 (5-0)	5 (5-0)	.....
Gen. Chemistry, Chem. 111a, 112a ..	5 (3-4)	5 (3-4)	.....
Qualitative Analysis, Chem. 113 ....	.....	.....	5 (3-4)
Mechanism, M. E. 321, 322 .....	.....	5 (5-0)	5 (5-0)
Machine Drawing, M. E. 323	3 (0-6)	.....	.....
Mech. Eng., Drawing, M. E. 324, 325 .....	.....	3 (0-6)	3 (0-6)
Surveying, Math. 324 .....	.....	.....	.....
Forge Shop, M. E. 326, 327	3 (0-6)	3 (0-6)	.....
Mil. Science, M. S. 221, 222, 223 ...	1 (0-2)	1 (0-2)	1 (0-2)

Junior Year

Mechanics, M. E. 331, 332, 333	5 (5-0)	5 (5-0)	5 (5-0)
Thermodynamics, M. E. 334, 335, 336	5 (5-0)	5 (5-0)	5 (5-0)
Hydraulics, M. E. 337 .....	.....	.....	3 (3-0)
Materials of Construction, M. E. 338, 339 .....	.....	2 (2-0)	2 (2-0)
Mechanism of Machines, M. E. 3310	5 (5-0)	.....	.....
Machine Tools, M. E. 3314, 3315 ...	3 (0-6)	3 (0-6)	.....
Economics 231, 232, 233	3 (3-0)	3 (3-0)	3 (3-0)
*Ed. 331, 332, 333	3 (3-0)	3 (3-0)	3 (3-0)

Senior Year

Report Writing, M. E. 3410	4 (3-2)	.....	.....
Contracts and Specifications, M. E. 3411 .....	.....	5 (5-0)	.....
Heating and Ventilating, M. E. 3412	3 (3-0)	.....	.....
Electrical Eng. Lab., M. E. 3415 ...	.....	.....	3 (1-4)
Elements of Electrical Engineering, M. E. 3416, 3417	5 (5-0)	5 (5-0)	.....
Survey of Engineering, M. E. 342 ..	.....	2 (1-2)	.....
Machine Design, M. E. 3312, 346, 347	5 (5-0)	5 (2-6)	5 (2-6)
Hydraulic Turbines, M. E. 345 .....	.....	.....	3 (3-0)
Steam Power Plant Eng., M. E. 348.	.....	.....	5 (5-0)
Testing Materials Lab., M. E. 349 ..	.....	2 (1-3)	.....
*Ed. 341, 343, 344	3 (3-0)	3 (3-0)	5 (5-0)

Note:—Credits: Listed under terms, the figure to the extreme left indicates the term credits. The left-hand figure within parentheses indicates the number of recitations per week; the right-hand figure indicates hours of laboratory work per week.

*Students desiring a North Carolina Teacher's Certificate must elect prescribed teacher training courses.

TEACHER-TRAINING FOR TRADES AND INDUSTRIAL EDUCATION

TEACHERS OF INDUSTRIAL ARTS

The State of North Carolina finds it quite a problem to secure qualified teachers of Industrial Arts for its High Schools. A. and T. College offers courses for the training of Industrial Arts teachers. The prospective teacher, in addition to a thorough preparation in subject matter in the various shops such as wood-working, machine shop practice, electrical work, automobile repairing, masonry, and mechanical drawing, is given courses in organization of the industrial arts, shop management, and methods of instruction.

TEACHERS FOR TRADES AND INDUSTRIES AND THE RELATED SUBJECTS

The board of vocational education has designated A. and T. College as the Teacher-Training Institution for teachers of trades and industries and the related subjects. Its purpose is to meet the growing demand for such teachers in the State and to develop the vocational program. We are in great need of all day trade and part-time trade teachers and evening trade class teachers, and in a very short time it is possible that we shall need colored supervisors and directors of industrial education in our larger towns and cities. The School of Mechanic Arts is co-operating with the Department of Industrial Education in training men for these positions. Students with trade knowledge and experience and two years of technical college work are eligible for vocational teacher training for Trades and Related Subjects, and the Industrial Arts.

One of the greatest needs at present is qualified trades and technical teachers of evening classes. Students who have a high school training and trade knowledge and technical experience may enter a two-year teacher training course and receive a State vocational certificate to teach in evening schools and classes.

CURRICULUM FOR TRADES AND INDUSTRIAL ARTS TEACHERS

Freshman Year

	Fall	Winter	Spring
Algebra, Trigonometry, Analytical			
Geometry, Math. 311, 312, 313 ..	5(5-0)	5(5-0)	5(5-0)
English 211, 212 .....	.....	5(5-0)	5(5-0)

	Fall	Winter	Spring
Descriptive Geometry, M. E. 314....	3(1-4)	.....	.....
General Physics, Phys. 311, 312, 313	5(4-2)	5(4-2)	5(4-2)
Mechanical Drawing, M. E. 311, 312	.....	4(0-8)	4(0-8)
Elementary Woodworking, I. A. 311, 312, 313	3(0-6)	3(0-6)	3(0-6)
Mil. Science, M. S. 211, 212, 213 ..	1(0-2)	1(0-2)	1(0-2)

Sophomore Year

Calculus, Math. 321, 322, 323	5(5-0)	5(5-0)	5(5-0)
English 236, 241	5(5-0)	5(5-0)	.....
Gen. Chemistry, Chem. 111a, 112a ..	5(3-4)	3(3-4)	.....
Machine Drawing, M. E. 323, 324, 325	3(0-6)	3(0-6)	3(0-6)
Materials of Construction in Indus- trial Arts, I. A. 324 .....	.....	.....	3(3-0)
Advanced Woodworking, I. A. 325, 326, 327	3(0-6)	3(0-6)	3(0-6)
Educational Psychology, Edu. 231..	.....	.....	5(5-0)
Mil. Science, M. S. 221, 222, 223 ...	1(0-2)	1(0-2)	1(0-2)

Junior Year

Public Speaking, English 232	3(3-0)	.....	.....
Test and Measurements, Edu. 236..	.....	.....	5(5-0)
Vocational Educ., Trade Analysis Education 331, 332 .....	.....	3(3-0)	3(3-0)
Vocational Drawing, I. A. 331, 332, 333	3(0-6)	3(0-6)	3(0-6)
Materials and Equipment of Indus- trial Arts Shops, Edu. 333 .....	.....	.....	3(3-0)
Problems of Secondary Education, Education 237, 238	3(3-0)	3(3-0)	.....
Principles of Economics, Econ. 231, 232	5(5-0)	5(5-0)	.....
Upholstering, Wood Turning, Finish- ing, I. A. 338, 339, 340	3(0-6)	3(0-6)	3(0-6)
Elective	3	3	3

Senior Year

Vocational Guidance, Organization of I. A. Shops, Educ. 341, 342..	3(3-0)	3(3-0)	.....
Methods of Teaching I. A. Educ. 343	.....	.....	3(3-0)
Methods of Teaching (Second Major) Math., Educ. 245 .....	.....	3(3-0)	.....

	Fall	Winter	Spring
Organization of Part Time Classes, Observation and Practice Teaching, Education 344, 345		3(3-0)	3(3-0)
Principles of Sociology, Soc. 231 ...	4(4-0)	.....	.....
History of Industrial Education, I. A. 341, 342	3(3-0)	3(3-0)	.....
Educational Sociology, Educ. 239..	.....	.....	3(3-0)
Electricity, Machine Shop Practice, Automobile Mechanics, I. A. 348, 349, 350	3(0-6)	3(0-6)	3(0-6)
Free Hand Drawing, Water Color Art 311, 312, 313	3(0-6)	3(0-6)	3(0-6)

CURRICULUM IN FINE ARTS

*For Students Who Wish to Major in Fine Arts**Freshman Year*

English 211, 212	5(5-0)	5(5-0)	
History of Western Europe 211	5(5-0)	.....	.....
History Elective	5(5-0)	.....	.....
Negro History 213 .....	.....	.....	5(5-0)
Art 311, 312, 313, (Cast Drawing)..	3(0-6)	3(0-6)	3(0-6)
Education 211, 212, 213	1(1-0)	1(1-0)	1(1-0)
Mechanical Drawing	2(0-4)	2(0-4)	.....
Still Life 1 .....	.....	1(0-2)	1(0-2)
Composition 1	1(1-0)	1(1-0)	1(1-0)
Lettering 1 .....	.....	.....	1(0-2)
Perspective Art 3110 .....	.....	1½(0-1)	.....
Sketch 1	1(0-2)	1(0-2)	1(0-2)
Design 1	1(0-2)	1(0-2)	1(0-2)
Physical Education	1½(0-1)	1½(0-1)	1½(0-1)

Sophomore Year

Eng. 236 (or 233), 241	5(5-0)	5(5-0)	.....
General Psychology 221, 222	4(4-0)	4(4-0)	.....
History of Education 223 .....	.....	.....	5(5-0)
Fine Arts 1, (History of Sculpture) 327, 328, 329	1(1-0)	1(1-0)	1(1-0)
Design 2	1(0-2)	1(0-2)	1(0-2)
Still Life 2	1(0-2)	1(0-2)	1(0-2)
Portrait 1	2(0-4)	2(0-4)	2(0-4)
Composition 2	2(1-2)	2(1-2)	2(1-2)
Anatomy 1	1(1-0)	1(1-0)	1(1-0)
Sketch 2	1(0-2)	1(0-2)	1(0-2)
Costume Design 341, 342	2(0-4)	2(0-4)	.....

Junior Year

	Fall	Winter	Spring
Education 237, 238, 239	3(3-0)	3(3-0)	3(3-0)
American Art 347, 348	1(1-0)	1(1-0)	1(1-0)
Public School Art Methods 1	2(1-2)	2(1-2)	2(1-2)
Fine Arts 2 (History of Painting)			
337, 338, 339	1(1-0)	1(1-0)	1(1-0)
Design 3	1(0-2)	1(0-2)	1(0-2)
Water Color 332		2(0-4)	.....
Life 2	1(0-2)	1(0-2)	1(0-2)
Portrait 2	2(0-4)	2(0-4)	2(0-4)
Art 321, 322, 323 (Pen and Ink			
Illustration)	3(0-6)	3(0-6)	3(0-6)
Poster	1(0-2)	1(0-2)	1(0-2)
Interior Decoration	1(0-2)	1(0-2)	1(0-2)
Physical Education (Elective)			

Senior Year

Educational Psychology 231, 232 ..	4(4-0)	4(4-0)	.....
Practice Teaching 251			4(1-6)
Art 345, 346, 347	3(0-6)	3(0-6)	3(0-6)
Life 3	1(0-2)	1(0-2)	1(0-2)
Sketch 3	1(0-2)	1(0-2)	1(0-2)
Portrait 3	2(0-4)	2(0-4)	2(0-4)
Water Color 2		2(0-4)	.....
Public School Art Methods	2(1-2)	2(1-2)	2(1-2)
History of Ornament	1(1-0)	.....	.....
Public Speaking 232	2(2-0)	.....	.....
Thesis .....	.....	1½(1-1)	1½(1-1)

CURRICULUM IN ELECTRICAL ENGINEERING

Freshman Year

Chemistry 111, 112, 113	5(3-4)	5(3-4)	5(3-4)
Mathematics 314	3(1-4)	.....	.....
Mathematics 311, 312, 313	5(5-0)	5(5-0)	5(5-0)
English 211, 212 .....	.....	5(5-0)	5(5-0)
Elective:			
Drawing M. E. 311, 312 .....	.....	4(0-8)	4(0-8)

Note:—Credits: Listed under terms, the figure to the extreme left indicates the term credits. The left-hand figure within parentheses indicates the number of recitations per week; the right-hand figure indicates hours of laboratory per week.

Sophomore Year

	Fall	Winter	Spring
Metallurgy		2(2-0)	.....
Drawing M. E. 323, 324, 325	3(0-6)	3(0-6)	3(0-6)
Mathematics 321, 322, 323	5(5-0)	5(5-0)	5(5-0)
Shop Work	2(0-4)	2(0-4)	2(0-4)
Economics 231	5(5-0)	.....	.....
Physics 311, 312, 313	5(4-2)	5(4-2)	5(4-2)
Educational Psychology 231 .....	.....	.....	5(5-0)

Junior Year

Applied Mech., M. E. 331, 332	5(5-0)	5(5-0)	.....
Mach. Draw. M. E. 3311, 3312, 3313	3(0-6)	4(1-6)	4(1-6)
D. C. Machinery E. E. 331, 332....	5(3-4)	5(3-4)	5(3-4)
A. C. Machinery E. E. 333 .....	.....	.....	5(3-4)
Physics 321, 322, 323	5(2-6)	5(2-6)	5(2-6)
Education 237, 238	3(3-0)	3(3-0)	.....
Electives			

Senior Year

Elec. Design, E. E. 341, 342, 343 ...	3(3-0)	3(3-0)	3(3-0)
M. E. 337	3(3-0)	.....	.....
M. E. 348	3(5-0)	.....	.....
Generating Stations, E. E. 345	3(3-0)	.....	.....
Telegraphy-Telephony, E. E. 346 ..	.....	.....	.....
Mech. Telephone, E. E. 347, 348 ....	.....	.....	.....
Exchanges	3(2-4)	3(2-4)	3(2-4)
Electric Railways, E. E. 363 .....	.....	.....	3(3-0)
Electric Transmission, E. E. 351 ...	.....	.....	3(3-0)
M. E. 3411 .....	.....	5(5-0)	.....
Electives:			
Radio Circuits, E. E. 354 .....	.....	.....	.....
Surveying, Math. 324 .....	.....	.....	.....
Motor Control, E. E. 330 .....	.....	.....	.....
Storage Batteries, E. E. 352 .....	.....	.....	.....
Math. 331 .....	.....	.....	.....
Education 246, 249, 251 .....	.....	.....	.....

THE COLLEGE OF ARTS AND SCIENCES

WARMOTH T. GIBBS, *Dean*

The College of Arts and Sciences offers to the student opportunity to prepare either for teaching or for any one of several distinct vocational pursuits. The course is constructed so that the student, although specializing, may come in touch with subjects that possess wide cultural value and insure that broader outlook upon life which should characterize the educated man or woman. This College also offers professional courses in subjects required by the State Board of Education for the Standard "A" grade certificate. Students who complete all required professional subjects will qualify for the class "A" certificates offered by the State of North Carolina.

The Science College includes six major departments: Business and Economics, Education, English, Foreign Language, History and Social Science.

REQUIREMENTS FOR ADMISSION

Admission requirements are the same as those given for entrance to freshman college classes (page 20).

REQUIREMENTS FOR GRADUATION

A minimum of 196 term credit hours and 196 grade points,* including military science or physical education, and an acceptable thesis are required for graduation. A student who has been excused from military science, or physical education will be required to earn academic credit in lieu of the requirements from which he has been excused.

THESIS RULES

A candidate for the bachelor's degree in the College of Arts and Sciences must present a satisfactory thesis as part requirement. The subject of the thesis together with the approval of the advisor directing the work must be turned into the office of the Dean of the Arts and Science College not later than December 1. He must submit his complete manuscript to his adviser not later than May 1.

A candidate who expects to receive his degree at the end of the summer quarter must submit the complete manuscript

*Required of Freshmen entering Fall, 1930, and thereafter.

of his thesis, ready for typewriting, to his adviser for approval, not later than four weeks prior to date of graduation. If the manuscript is then approved the candidate proceeds at once to have a typewritten copy made. The typewritten copy should then be presented to the adviser, for final approval, not later than one week prior to the date of graduation. If it is then approved it shall be deposited with the registrar not later than three days prior to the date of graduation.

ADVANCED STANDING

Students who transfer from accredited colleges will be given credit for work done upon presentation of records to the proper authorities who will evaluate them.

DEGREES

A student who satisfactorily completes the work of any curriculum of the college and satisfactorily meets all other requirements will be granted the Bachelor of Science Degree.

OPPORTUNITIES FOR WOMEN

All courses in the College are open to women on the same basis as men. There is a great demand for well trained women not only as teachers but in practically all fields of endeavor. Accordingly, women registering in the Teacher Training Division may, with approval of their advisor, select courses in any other division or department of the Institution.

The aim of this division is to give the women as well as the men who plan to teach every opportunity to take full advantage of all the facilities of the College in developing the best and most comprehensive training possible.

ADVISORS

Each student of the college is assigned an advisor when he presents himself for registration. The advisor is always a member of the faculty. All courses must be elected with the approval of the advisor assigned.

MAJORS AND MINORS

A student upon entering his third year is expected to concentrate in at least two definite fields of study. In arranging his work he must conform to the following regulations: (1) At least forty-five hours of the total number required for graduation must be chosen from a particular subject or field. This will constitute the student's major group. (2) At least

27 hours must be chosen from another subject or field. This will constitute his minor group. The major should represent the student's principal field of interest and the minor, that of his second selection. Persons preparing to teach must complete majors in two fields.

I. The following are suggested as fields for major study:

1. Business Administration.
2. Chemistry.
3. Commercial Education.
4. Economics and Sociology.
5. English.
6. History.
7. Mathematics.
8. Modern Languages.
9. Science (including Biology, Botany and Physics).

II. For a minor the students may select any one of the above fields other than that of his major study.

III. The elective work may be taken in any of the departments indicated above or from any other department of the Institution subject to the approval of the Dean of the College of Arts and Sciences.

GENERAL MINIMUM DISTRIBUTION REQUIREMENTS

In addition to majors and minors each candidate for graduation will be required to meet the following distribution requirements both as to subjects and hours.

1. Foreign language, 10 hours for those who present two admission units of high school credit in the same language, others 18 hours.

2. Mathematics, including college Algebra and Trigonometry, 10 hours.

3. English, including Composition and Literature, 20 hours.

4. Science, including one year of chemistry or physics and one year of biological sciences, 45 hours.

5. History, including Negro history, 10 hours.

6. Music or Art Appreciation, 6 hours.

7. Military Science or Physical Education, 6 hours.

8. Orientation, including occupations, 3 hours.

REGULATIONS FOR NORTH CAROLINA TEACHERS' CERTIFICATES

SPECIFIC REQUIREMENTS, HIGH SCHOOL TEACHERS' CERTIFICATE

Effective July 1, 1931, and thereafter, in order to secure the High School Teachers' Certificate Class "A" applicants must have met the following professional requirements:

1. Education Psychology 3 semester hours
2. Principles of High School Teaching
or
Problems in Secondary Education.. 3 semester hours
3. Materials and Methods (Two fields) 6 semester hours
4. Observation and Directed Teaching. 3 semester hours
(One or both fields)
5. Electives 6 semester hours

CURRICULA

During the first two years in the College of Arts and Sciences, the student is expected to lay a broad foundation for later specialization. To secure this end the courses in the Freshman and Sophomore years have been so selected and grouped as to cover all of the major fields of knowledge. They are prescribed and required of all students in the College.

FRESHMAN YEAR

In the Freshman year each student may carry from 15 to 19 credit hours during any quarter. He will be assigned an adviser who will assist him in making out his program selected from the following groups:

	Credit hours each
ENGLISH COMPOSITION	
Eng., 211, 212	5
FOREIGN LANGUAGE	
French 211, 212, 213	5
German 211, 212, 213	5
HISTORY	
Hist. 211, Western Europe	5
Hist. 213, Negro	5
MATHEMATICS	
Math. 311, College Algebra	5
Math. 312, Trigonometry	5

ORIENTATION		Credit hours each
Ed. 211, 212, 213		1
HEALTH		
Mil. Sc. 211, 212, 213, or		
Phy. Ed. 211, 212, 213		1
MUSIC APPRECIATION		
Music 211, 212, 213		1
NATURAL SCIENCE		
Chem. 111, 112, 113		5
Physics 311, 312, 313		5

All Freshmen courses, with the exception of natural sciences and foreign languages, offered in the fall quarter will be offered in the winter and spring quarters also. This makes it possible for Freshmen to enter any quarter.

SOPHOMORE YEAR

During his Sophomore year each student with the approval of his adviser may select and carry from 15 to 19 credit hours per quarter from the following groups:

EDUCATION		Credit hours each
General Psychology, Ed. 221, 222		4
History of Education, Ed. 223		5
ENGLISH LITERATURE		
Eng. 222, 223		5
ETHICS		
Phil. 223		3
FOREIGN LANGUAGE		
French 221, 222, 223		5
German 221, 222, 223		5
HEALTH		
Military Science 221, 222, 223, or		
Physical Education 221, 222, 223		1
HISTORY, U. S.		
Hist. 221, 222, 223		5
MATHEMATICS		
Calculus, Math. 321, 322, 323		5
NATURAL SCIENCE		
General Zoology, Zool. 111		4
Anatomy and Physiology, Zool. 121 ...		3
General Botany, Bot. 111		4

CULTURAL	Credit hours each
Music Appreciation, Music 221, 222, 223	1

FREE ELECTIVES

Mechanical or Agricultural College.... 5-10

COURSE PRELIMINARY TO ADMISSION TO MEDICAL COLLEGE

This Institution has been rated as class "A" by the American Medical Association as to qualifications for giving pre-medical school training. Students completing the prescribed course are therefore admitted to the medical colleges of this country without examination.

All students planning to study medicine are urged to complete the four-year course and receive their degree first. In cases where such will not be possible, the following is suggested as a two-year pre-medical course in addition to military science and physical education, which will meet the minimum requirements.

Freshman Year

<i>Fall</i>	Credits
Foreign Language	5
Chemistry 111	5
English 211	5
Education 211	1

<i>Winter</i>	Credits
Foreign Language	5
Chemistry 112	5
English 212	5
Education 212	1

<i>Spring</i>	Credits
Foreign Language	5
Chemistry 113	5
Mathematics 311	5
Education 213	1

Sophomore Year

<i>Fall</i>	Credits
Physics 311	5
Education 221	4
Botany 111	4
English 232	3

	<i>Winter</i>	Credits
Physics 312		5
Education 222		4
Zoology 121		4
Chemistry 124		5

	<i>Spring</i>	Credits
Physics 313		5
Mathematics 312		5
Zoology 122		4
Elective		3

SELECTION OF MAJORS

On reaching the Junior year in college each student will be required to make out a program of study covering both the Junior and Senior years indicating his major and minor, and also the courses intended to meet these requirements. This will be submitted to his adviser for approval. The following combinations are suggested for Majors:

MAJOR IN AMERICAN HISTORY

	<i>Junior Year</i>		
	Fall	Winter	Spring
Principles of Economics, Econ. 231, 232	5 (5-0)	5 (5-0)	.....
U. S. History, Hist. 221	5 (5-0)	.....	.....
U. S. History, Hist. 222 .....	.....	5 (5-0)	.....
U. S. History, Hist. 223 .....	.....	.....	5 (5-0)
Domestic and Foreign Trade, B. A. 246 .....	.....	.....	5 (5-0)
American Government, Pol. Sc. 231, 232	5 (5-0)	5 (5-0)	.....
Political Parties, Pol. Sc. 234 .....	.....	.....	3 (3-0)
Anthropology, Soc. 233 .....	.....	.....	3 (3-0)

	<i>Senior Year</i>		
International Relations, Pol. Sc. 241	5 (5-0)	.....	.....
Geography, Principles, Hist. 243 ..	5 (5-0)	.....	.....
Com. and Ind. Geography, Hist. 241, 242 .....	.....	4 (4-0)	5 (5-0)
Latin-American History, Hist. 233 ..	.....	.....	5 (5-0)
Historical Research, Hist. 245	3 (3-0)	.....	.....
*Electives			

*Those planning to teach must select education courses. See professional requirements on page 59.

MAJOR IN BIOLOGICAL SCIENCES*Junior Year*

	Fall	Winter	Spring
General Bacteriology, Bact. 121	5(3-4)	.....	.....
Advanced Bacteriology, Bact. 131 .. . . .	.....	5(3-4)	.....
General Botany, Bot. 111	4(3-2)	.....	.....
General Zoology, Zool. 111	4(3-2)	.....	.....
Economic Entomology, Zool. 131 ... . .	.....	3(2-2)	.....
Genetics and Evolution, Zool. 134	3(3-0)	.....	.....
Electives			

Senior Year

Principles of Geography, Hist. 243..	5(5-0)	.....	.....
Com. and Ind. Geography, Hist. 241, 242	4(4-0)	5(5-0)	.....
Comparative Anatomy, Zool. 121 ... . .	.....	3(3-0)	.....
Advanced Botany, Bot. 112 . . . . .	.....	3(2-2)	.....
Plant Physiology, Bot. 121	3(2-2)	.....	.....
Systematic Botany, Bot. 141 . . . . .	.....	3(2-2)	.....
Geology, Geol. 131	5(4-2)	.....	.....
Electives			

MAJOR IN CHEMISTRY*Junior Year*

Quantitative Analysis, Chem. 131, 132	5(2-6)	5(2-6)	.....
Advanced Organic Chemistry, Chem. 124, 125	3(3-0)	3(3-0)	.....
Advanced Inorganic Chemistry Chem. 151 . . . . .	.....	5(2-3)	.....
Geology, Geol. 131 . . . . .	.....	5(4-2)	.....
Electives			

Senior Year

Advanced Quantitative Analysis, Chem. 141	5(2-6)	.....	.....
Qualitative Organic Analysis, Chem. 133 . . . . .	.....	3(1-4)	.....
Quantitative Organic Analysis, Chem. 134	2(0-4)	.....	.....
Physical Chemistry, Chem. 143	6(3-6)	.....	.....
Industrial, Chem. 145 . . . . .	.....	3(3-0)	.....
Electives			

MAJOR IN BUSINESS ADMINISTRATION*Junior Year*

	Fall	Winter	Spring
Principles of Business, B. A. 231....	5(5-0)	.....	.....
Accounting, B. A. 232, 233 .....	.....	5(5-0)	5(5-0)
Commercial Law, B. A. 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
Principles of Salesmanship, B. A. 237	5(5-0)	.....	.....
Principles of Advertising, B. A. 238	.....	5(5-0)	.....
Business Correspondence, B. A. 239	.....	.....	5(5-0)
Principles of Economics, Econ. 231	5(5-0)	.....	.....
Economic Problems, Econ. 232 ....	.....	5(5-0)	.....
Money and Credit, Econ. 242 .....	.....	.....	5(5-0)

Senior Year

Cost Accounting, B. A. 241	5(5-0)	.....	.....
Accounting Systems, B. A. 242 ....	.....	5(5-0)	.....
Principles of Marketing, B. A. 244 ..	5(5-0)	.....	.....
Business Finance, B. A. 247	5(5-0)	.....	.....
Corporation Finance, B. A. 248 ....	.....	5(5-0)	.....
Investment, B. A. 249 .....	.....	.....	5(5-0)
Business Management, B. A. 251 ..	5(5-0)	.....	.....
Office Management, B. A. 252 .....	.....	5(5-0)	.....
Personnel Administration, B. A. 253	.....	.....	5(5-0)
Insurance, B. A. 256 .....	.....	.....	5(5-0)

MAJOR IN COMMERCIAL EDUCATION*Junior Year*

Principles of Business, B. A. 231 ..	5(5-0)	.....	.....
Accounting, B. A. 232, 233 .....	.....	5(5-0)	5(5-0)
Commercial Law, B. A. 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
Prin. of Salesmanship, B. A. 237 ..	5(5-0)	.....	.....
Prin. of Advertising, B. A. 238 ....	.....	5(5-0)	.....
Business Correspondence, B. A. 239	.....	.....	5(5-0)

*Electives

Senior Year

Business Finance, B. A. 247	5(5-0)	.....	.....
Corporation Finance, B. A. 248 ....	.....	5(5-0)	.....
Investments, B. A. 249 .....	.....	.....	5(5-0)
Business Management, B. A. 251 ...	5(5-0)	.....	.....
Office Management, B. A. 252 .....	.....	5(5-0)	.....
Personnel Administration, A. B. 253	.....	.....	5(5-0)

*Electives

*Electives are to be selected from the Department of Education.

MAJOR IN ECONOMICS*Junior Year*

	Fall	Winter	Spring
Principles of Economics, Econ. 231.	5(5-0)	.....	.....
Economic Problems, Econ. 232 .....	.....	5(5-0)	.....
Money and Credit, Econ. 242 .....	.....	.....	5(5-0)
Labor Problems, Legislation, Econ. 264	5(5-0)	.....	.....
Unemployment, Econ. 267 .....	.....	.....	5(5-0)
Commercial Law, B. A. 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
Electives			

Senior Year

Domestic and Foreign Trade, Econ. 259	5(5-0)	.....	.....
Credit and Collections, B. A. 259 ..	.....	5(5-0)	.....
Public Finance, Econ. 262 .....	.....	.....	5(5-0)
Industrial Geography, Hist. 241, 242 .....	.....	4(4-0)	5(5-0)
Principles of Geography, Hist. 243..	5(5-0)	.....	.....
Electives			

MAJOR IN ENGLISH*Junior Year*

Journalism, Eng. 231	5(5-0)	.....	.....
Public Speaking, Eng. 232	3(3-0)	.....	.....
or			
Argumentation and Debating, Eng. 236	5(5-0)	.....	.....
or			
Dramatics, Eng. 233	5(5-0)	.....	.....
Chaucer, Eng. 235 .....	.....	5(5-0)	.....
Shakespeare, Eng. 334 .....	.....	.....	5(5-0)
or			
American Literature, Eng. 221 .....	.....	.....	5(5-0)
Philosophy, Phil. 231, 232, 223	3(3-0)	3(3-0)	3(3-0)
Electives			

Senior Year

Advanced Composition and Litera- ture, Eng. 244	5(5-0)	.....	.....
or			
Eighteenth Century Literature, Eng. 241	5(5-0)	.....	.....
The Romantic Era, Eng. 242 .....	.....	5(5-0)	.....
The Victorian Era, Eng. 243 .....	.....	.....	5(5-0)
Anc. and Med., Hist. 231, 232	5(5-0)	5(5-0)	.....
Electives			

MAJOR IN EUROPEAN HISTORY*Junior Year*

	Fall	Winter	Spring
Ancient History, Hist. 231	5 (5-0)	.....	.....
Mediaeval History, Hist, 232 .....	.....	5 (5-0)	.....
European Government, Pol. Sc. 233 .....	.....	.....	5 (5-0)
Economics, Econ. 231, 232	5 (5-0)	5 (5-0)	.....
Domestic and Foreign Trade, B. A. 246 .....	.....	.....	5 (5-0)
Mod. European History, Hist. 212 ..	.....	.....	5 (5-0)
Electives			

Senior Year

International Relations, Pol. Sc. 241	5 (5-0)	.....	.....
Principles of Geography, Hist. 243..	5 (5-0)	.....	.....
Com. and Ind. Geography, Hist. 241, 242 .....	.....	4 (4-0)	5 (5-0)
Latin American History, Hist. 233..	.....	.....	5 (5-0)
Historical Research, Hist. 245	3 (3-0)	.....	.....
Electives			

SPECIAL COURSES IN BUSINESS ADMINISTRATION

Auditing, B. A. 243 .....	.....	.....	5 (5-0)
Elements of Statistical Methods, B. A. 254	4 (2-4)	.....	.....
Business Forecasting, B. A. 258 ....	.....	5 (5-0)	.....
Sales Administration, B. A. 255....	.....	5 (5-0)	.....
Credit and Collection, B. A. 259 ....	.....	.....	5 (5-0)
Marketing Farm Products, B. A. 245 .....	.....	5 (5-0)	.....
Domestic and Foreign Trade, B. A. 246 .....	.....	.....	5 (5-0)
Prin. of Real Estate, B. A. 257	5 (5-0)	.....	.....

CERTIFICATE IN SECRETARIAL SCIENCE*Freshman Year*

Principles of Business, B. A. 231 ..	5 (5-0)	.....	.....
*Accounting, B. A. 232, 233 .....	.....	5 (5-0)	5 (5-0)
Business Correspondence, B. A. 239 .....	.....	.....	5 (5-0)
Eng. Composition, Eng. 211, 212 ..	5 (5-0)	5 (5-0)	.....
Prin. of Bookkeeping, Sec. Sc. 211..	.....	5 (5-0)	.....
Secretarial Studies, Sec. Sc. 212 ...	.....	.....	6 (2-8)
Shorthand, Sec. Sc. 214, 215, 216 ..	5 (5-0)	5 (5-0)	5 (5-0)
Typewriting, Sec. Sc. 217, 218, . 219	2.5 (0-5)	2.5 (0-5)	2.5 (0-5)

*May be elected.

Sophomore Year

Principles of Salesmanship, B. A. 237	5(5-0)	.....	.....
Office Management, B. A. 252	.....	5(5-0)	.....
Commercial Law, B. A. 234, 235, 236	3(3-0)	3(3-0)	3(3-0)
†Office Training, Sec. Sc. 221	.....	.....	9(2-15)
Advanced Stenography, Sec. Sc. 222	.....	.....	5(5-0)
Electives			

SPECIAL SECRETARIAL SCIENCE

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
B. A. 231	Sec. Sc. 211	B. A. 239-5
Sec. Sc. 214	Sec. Sc. 221-9	Sec. Sc. 216
Sec. Sc. 217	Sec. Sc. 215	Sec. Sc. 216-5
	Sec. Sc. 218	Sec. Sc. 219-2
		Sec. Sc. 222

MAJOR IN PHYSICAL EDUCATION*Junior Year*

	<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
Folk Dancing, Phy. Ed. 224, 226,			
225	2(1-2)	2(1-2)	2(1-2)
Massage, Phy. Ed. 237	2(1-2)	2(1-2)	2(1-2)
Methods, Phy. Ed. 238, 239	.....	2(1-2)	2(1-2)
Nutrition, Phy. Ed. 240	1(1-0)	.....	.....
Developmental Gymnastics, Phy. Ed.			
231	2(1-2)	.....	.....
Corrective Gymnastics, Phy. Ed. 233	.....	2(2-0)	.....
Psychology of Play, Phy. Ed. 235..	2(2-0)	.....	.....
History of Phy. Ed., Phy. Ed. 233..	1(1-0)	.....	.....
Hygiene, Phy. Ed. 215, 216	.....	2(2-0)	2(2-0)
Electives			

Senior Year

Nutrition, Phy. Ed. 240	1(1-0)	.....	.....
Vocal Expression, Phy. Ed. 250	1(1-0)	1(1-0)	.....
Pantomime, Phy. Ed. 242, 243	.....	1(1-0)	1(1-0)
Pageantry, Phy. Ed. 244	.....	.....	1(1-0)
Physical Diagnosis, Phy. Ed. 251	2(2-0)	.....	.....
Preventive Medicine, Phy. Ed. 253,			
254	.....	2(2-0)	2(2-0)
Practice Teaching, Phy. Ed. 262, 263	.....	4(1-6)	4(1-6)
Creative Dancing, Phy. Ed. 271	3(1-4)	.....	.....
Corrective Clinic, Phy. Ed. 272, 273,			
274	2(1-2)	2(1-2)	2(1-2)

†May be taken during any quarter.

MAJOR IN FOREIGN LANGUAGES*Junior Year*

French 214, 215, 216	5 (5-0)	5 (5-0)	5 (5-0)
or			
French 221, 222, 223	5 (5-0)	5 (5-0)	5 (5-0)
German 211, 212, 213	5 (5-0)	5 (5-0)	5 (5-0)
Electives			

Senior Year

French 231, 232, 233	5 (5-0)	5 (5-0)	5 (5-0)
French 245	3 (0-6)	3 (0-6)	3 (0-6)
German 221	5 (5-0)	.....	.....
German 222 .....	.....	5 (5-0)	.....
German 223 .....	.....	.....	5 (5-0)
Electives			

MAJOR IN MATHEMATICS*Junior Year*

	Fall	Winter	Spring
Calculus, Math, 321, 322, 323	5 (5-0)	5 (5-0)	5 (5-0)
Principles of Economics, Econ. 231, 232, 262	5 (5-0)	5 (5-0)	5 (5-0)
Physics 311, 312, 313	5 (5-0)	5 (5-0)	5 (5-0)
Electives			

Senior Year

Advanced Calculus, Math. 332, 333.	5 (5-0)	5 (5-0)
Surveying, Math. 324	3 (3-0)	.....
Differential Equations, Math. 331....	.....	5 (5-0)
*Teaching of Mathematics, Edu. 246 .....	.....	5 (5-0)
*Observation and Practice Teaching, Edu. 251 .....	.....	5 (5-0)
Electives		

MAJOR IN SOCIOLOGY*Junior Year*

Principles of Sociology, Soc. 231 ...	5 (5-0)	.....	.....
Community Life, Soc. 232 .....	.....	5 (5-0)	.....
Principles of Economics, Econ. 231, 232	5 (5-0)	5 (5-0)	.....
Unemployment, Econ. 266 .....	.....	.....	5 (5-0)
Anthropology, Soc. 233 .....	.....	.....	3 (3-0)
Electives			

*Required of those planning to teach.

Senior Year

The Family, Soc. 241	3(3-0)	.....	.....
Problems of Race, Soc. 242 .....	.....	3(3-0)	.....
Rural Sociology, Soc. 243 .....	.....	.....	3(3-0)
Community Organization, Soc. 244. ....	.....	4(4-0)	.....
Principles of Geography, Geo. 243 ..	5(5-0)	.....	.....
Com. and Ind. Geography, Hist. 241, 242 .....	.....	4(4-0)	5(5-0)
Case Study, Soc. 245	3(3-0)	.....	.....
Electives			

DESCRIPTION OF COURSES

AGRONOMY

111. **SOIL MANAGEMENT.** A course dealing with the methods of soil utilization, including the methods of fertilizing the soil, the mixing and applying commercial plant-food, the use of green manure, stable manure, lime, and the influence of crop rotation and fertilizer on the soils as shown by field experiments.
Fall Quarter—Credit, 3(2-2).
112. **FIELD AND FORAGE CROPS.** The course includes lectures and recitations on the history, production, adaptation, use, harvesting, and curing. The identification of forage plants and their seeds, pasture and forage crop regions and the plotting of maps of sections adapted to each of the leading forage crops, with special emphasis on those of North Carolina. The crops are considered from the standpoint of pasture crops, hay crops and soil improving crops.
Winter Quarter—Credit, 4(3-2).
121. **NATURE AND PROPERTIES OF SOILS.** A course dealing with the origin, formation and classification of soils and their chemical relationships. The chemical, physical and biological properties, with reference to composition and plant relations of soils. The practical use of lime, fertilizers and other means of maintaining soil fertility.
Prerequisites: 111 and 112.
Winter Quarter—Credit, 4(3-2).
131. **TOBACCO.** Lectures and recitations on the history, production, adaptation, type, varieties, cultivation, harvesting, grading, marketing, diseases and control measures, based on North Carolina conditions.
Prerequisites: 111, 112 and 121.
Fall Quarter—Credit, 4(2-4).

Note:—Credits: Listed under terms, the figure to the extreme left indicates the term credits. The left-hand figure within parentheses indicates the number of recitations per week; the right-hand figure indicates hours of laboratory per week.

132. COTTON. The course includes lectures and recitations on the history, origin, production, adaptation, varieties, cultivation, harvesting and grading with some reference to marketing, diseases and control, measures, rotation and the upkeep of soil fertility under long time cropping systems.

Prerequisites: 111, 112 and 121.

Fall Quarter—Credit, 4(2-4).

133. SOIL BACTERIOLOGY. (See Bacteriology.)

141. SEED IDENTIFICATION. The course consists of lectures, discussions, and practice in the identification of field and forage crops, seeds, with some attention to storage methods and the relative length of viable period.

Prerequisites: 112 and Botany 111.

Winter Quarter—Credit, 3(1-4).

142. SEMINAR. The Seminar meets weekly, and is required of all Seniors. It consists of reports and abstracts from various scientific journals on topics related to crop and soil relations.

Prerequisites: 111, 112 and 121.

Quarter to be arranged at time of registration.

ANIMAL HUSBANDRY, DAIRYING AND POULTRY

ANIMAL HUSBANDRY

111. SWINE, HORSE AND MULE PRODUCTION. A detailed study of the most practical methods used in the production and management of farm work stock under southern conditions. A study of types, breeds, characteristics and adaptability of swine, breeding, housing and marketing will be emphasized.

Fall Quarter—Credit, 3(2-2).

121. DISEASES OF FARM ANIMALS. A course dealing with a general consideration of the causes, prevention and treatment of diseases of farm animals, the manner of spread, disinfectants and their application; general hygiene and stable sanitation, including drainage and selection of site.

Fall Quarter—Credit, 3(2-2).

122. **SELECTION AND JUDGING.** This course is designed to acquaint students with the types and breed characteristics of farm animals by use of the score card, comparative judging and selection of breeding stock.
Prerequisites: Animal Husbandry 111 and 121.
Winter Quarter—Credit, 3(2-2).
123. **ANIMAL NUTRITION.** A study of the general principles of nutrition as applied to livestock, composition of feed stuffs, comparisons and use of feeding standards, calculating rations, methods of feeding for economic production.
Prerequisites: Chemistry 111a, 112a, 122.
Spring Quarter—Credits, 3(2-2).
124. **PORK PRODUCTION.**
Prerequisite: Biol. 121.
Winter Quarter—Credit, 3 hours.
131. **BREED HISTORY.** History of breeds; pedigrees and registration methods.
Prerequisite: Animal Husbandry 122.
Winter Quarter—Credit, 3(3-0).
132. **ADVANCED STUDY OF DAIRY BREEDS.** Judging, selection of breeding animals, pedigree studies, important strains and families.
Prerequisite: Biol. 121.
Spring Quarter—Credit, 3 hours.
141. **SPECIAL PROBLEMS IN ANIMAL HUSBANDRY.**
(Hours and credits to be arranged.)
142. **SEMINAR.** (For Seniors only.)
Prerequisites: Animal Husbandry 111, 131.
Any Quarter—Credit, 1 hour.
143. **MILK SECRETION.** Principles of nutrition in their relation to milk secretion.
Fall Quarter—Credit, 2 hours.
144. **ANIMAL BREEDING.** Application of principles of genetics to improvement of farm animals; methods and problems of the breeder.
Prerequisites: A. H. 111, 121; Zool. 123, 134.
Winter Quarter—Credit, 3 hours.

145. **DAIRY HERD MANAGEMENT.** A course in feeding and management of the dairy herd. It includes a study of pedigrees, handling test cows, advanced registration, fitting cows for show and sale.

Prerequisites: Animal Husbandry 111, 121.

Spring Quarter—Credit, 4(2-4).

DAIRY INDUSTRY

111. **PRINCIPLES OF DAIRYING.** The course takes up secretion, composition, testing and separation of milk; the farm manufacture of cheese, butter and ice cream.

Spring Quarter—Credit, 5(3-4).

121. **ADVANCED MILK TESTING.** This course gives the student a knowledge of various acid tests, moisture and salt tests; the use of the lactometer; rennet tests, detection of preservatives and impurities; practical problems in dairy mathematics.

Prerequisite: Principles of Dairying 111.

Fall Quarter—Credit 5(3-4).

131. **BUTTER MANUFACTURE.** This course comprises a study of farm separators, separating milk for butter making, starter making, pasteurization, cream ripening; manufacturing, judging and scoring butter.

Prerequisite: Dairying 121.

Fall Quarter—Credit, 5(3-4).

132. **ICE CREAM MAKING.** A study of the manufacture of ice cream, sherbets and ices on a private or commercial scale; marketing, scoring and judging.

Prerequisite: Dairying 121.

Spring Quarter—Credit, 5(3-4). (One Lab. period.)

141. **DAIRY TECHNOLOGY.** This course gives the student a knowledge of the manufacture of casein, condensed milk, evaporated milk, powdered milk, malted milk, milk sugar, renovated butter and oleomargarine. Visits to condenseries and reports.

Prerequisites: Dairying 121, 131 and 132.

Spring Quarter—Credit, 3 hours.

142. **DAIRY CHEMISTRY.** See Chemistry 142.

Any Quarter—Credit, 5(3-4).

144. **MANAGEMENT OF DAIRY PLANT.** This course gives the student a general knowledge of refrigeration, mechanical refrigeration, problems in the cost of power to operate machinery, manufacturing butter; salesmanship, and labor problems in the factory.

Prerequisites: Dairying 121, 131, 132.

Winter Quarter—Credit, 5(3-4).

145. **COMMERCIAL DAIRYING.** Organization, construction, and management of local dairy plants from the viewpoint of the producer and the county agent.

Prerequisite: Dairy Industry 111.

Spring Quarter—Credit, 2 hours.

146. **MARKET MILK.** Sanitary production and processing of the milk supply; milk inspection systems and marketing of milk.

Prerequisites: Dy. Ind. 121 and Bact. 132.

Spring Quarter—Credits, 3 hours.

POULTRY

111. **GENERAL POULTRY PROBLEMS.** A course reviewing the general field of poultry, touching especially the phases of care, management and pathology, giving at the same time all essentials a beginner should know.

Prerequisites: None.

Winter Quarter—Credit, 4(3-2).

131. **INCUBATION.** This course deals with the practical phases of incubation and requires the successful operation of an incubator. Students should provide themselves with funds for purchasing from 6 to 12 dozen of good setting eggs, price ranging from 60 cents to \$1.00 per dozen, and meet unnecessary loss to college property.

Prerequisite: Poultry 111.

Winter Quarter—Credit, 3(1-4).

132. **BROODING.** The successful brooding of baby chicks is required in this course together with practicums in sanitation and feeding. The student must be able to bear his own expenses on his project and be responsible for any unnecessary loss to college property.

Prerequisites: Poultry 111, 131.

Spring Quarter—Credit, 3(1-4).

140. **POULTRY GENETICS—ELECTIVES.** For those who wish to go farther into the field of poultry this course is offered to teach the modes of developing the breeding flock and the modern applications of breeding principles, practical Mendelism and applied genetics.
Prerequisite: Biol. 134.
As arranged—Credits, 3(2-2).
142. **MARKETING OF POULTRY PRODUCTS—ELECTIVE.** The study of market reports, when to strike markets to get the maximum return, the time to set your producing equipment, is taken up in this marketing course.
Prerequisites: 111, 131, 132.
As arranged—Credits, 3(3-0).
143. **SEMINAR.** Required. A technical review of latest poultry data and problems confronting the advanced poultryman and a completing of some technical problem required by each student of the advanced poultry courses.
Prerequisites: 111, 131, 132 and 141 or 142.
As arranged—Credit, 1(1-0).
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ARCHITECTURE

311. **ELEMENTS OF ARCHITECTURE.** Drafting with lectures co-ordinated. Studies of the architectural elements, classic orders, etc. Instruction in lettering, use and care of instruments, drafting room practice, etc.
Fall Credit, 3(0-6).
312. **ELEMENTS OF ARCHITECTURE.** Drafting with lectures.
A continuation of 311.
Prerequisite: 211.
Winter Credit, 3(0-6).
313. **ELEMENTS OF ARCHITECTURE.** Drafting with lectures.
A continuation of 312.
Prerequisite: 312.
Spring Credit, 3(0-6).
314. **STEREOTOMY.** A study of the art of stone cutting for the arch principle of construction. Lectures, demonstrations, and drawing. Students will be taught to make detail drawings of stones of irregular shapes and cuts.
Prerequisite: M. E. 314.
Winter Credit, 3(1-4).

315. SHADES AND SHADOWS. The study of the conventionalized architectural shades and shadows. Pen and ink, and brush work.
Prerequisite: M. E. 314.
Spring Credit, 3(0-6).
321. DESIGN. Problems in architectural design and composition; rendering.
Prerequisites: 313 and 315.
Fall Credit, 5(1-8).
322. DESIGN. Problems in architectural design and composition; rendering. A continuation of 321.
Prerequisites: 321 and Art 313.
Winter Credit, 5(1-8).
323. DESIGN. Problems in architectural design and composition; rendering. A continuation of 322.
Prerequisite: 322.
Spring Credit, 5(1-8).
324. PERSPECTIVE. Drafting. Principles of architectural perspective in parallel, angular, and aerial.
Prerequisite: M. E. 314.
Spring Credit, 3(0-6).
331. DESIGN. Laboratory work with individual criticism. Problems in architectural design and composition. Treatments of exteriors and interiors.
Prerequisite: 323.
Fall Credit, 5(0-10).
332. DESIGN. Laboratory work with criticism. A continuation of 331.
Prerequisite: 331.
Winter Credit, 5(0-10).
333. DESIGN. Laboratory work with criticism.
A continuation of 332.
Spring Credit, 4(0-8).
334. JUNIOR STRUCTURES. Recitation and laboratory. Calculation of roof loads, floor loads, loading on bridges, etc. Design of wood and steel beams and columns.
Prerequisite: M. E. 332.
Spring Credit, 5(3-4).

335. CARPENTRY. Lecture recitation. Principles of carpentry; heavy framing; construction; joinery.
Fall Credit, 3(3-0).
336. MASONRY. Lecture recitation. Masonry construction as applied to buildings. Foundation; foundation soils; drainage and water-proofing.
Prerequisite: 335.
Winter Credit, 3(3-0).
337. WORKING DRAWINGS. Instruction in drafting and tracing working drawings from sketches.
Prerequisites: 311, M. E. 314.
Fall Credit, 3(0-6).
338. WORKING DRAWINGS. Making of full working drawings and details of architectural problems.
Prerequisite: 337.
Winter Credit, 2(0-4).
339. WORKING DRAWINGS. Analyzing and drawing of architectural and structural engineering details.
Prerequisite: 338.
Spring Credit, 3(0-6).
341. DESIGN. Laboratory work. A series of problems in Architectural composition and structural detail.
Prerequisites: 333, 339.
Fall Credit, 6(0-12).
342. DESIGN. Laboratory work. A continuation of course 341.
Prerequisite: 341.
Winter Credit, 6(0-12).
343. DESIGN. Laboratory work. A continuation of course 342.
Prerequisite: 342.
Spring Credit, 9(0-18).
344. SENIOR STRUCTURES. Lecture recitation. Analytical and graphical computation and analysis of all types of roof trusses, columns, beams and girders.
Prerequisite: 334.
Fall Credit, 5(5-0).

345. CONCRETE DESIGN. Lecture and recitation. Theory and design of reinforced concrete as applied to columns, beams and slabs for commercial buildings.
Prerequisites: 339, M. E. 338.
Winter Credit, 4(2-4).
346. ARCHITECTURAL PRACTICE. A study of architectural office and drafting room practice. Seminar.
Prerequisite: Eco. 238.
Spring Credit, 2(2-0).
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ART

GENERAL STATEMENT

Beginning with the fall term, 1930, students will have the opportunity of taking major courses in Art.

The purpose of the course as outlined is as follows:

- a. To discover and develop the latent talents of our students for artistic expression.
- b. To meet a growing demand for special trained art teachers in our public schools and colleges.
- c. To promote a fuller understanding of the importance of Art in our daily life and lay a foundation for careers as creative artists.

All students wishing to major in Art must pass a special examination or submit some of their art work for appraisal. Students in other departments desiring to take special work in Art may, by arrangement with instructor, take any of the courses listed under Art.

311. FREEHAND DRAWING. Principle of construction lines as applied in the drawing of the antique and still life—sketching in simple outline—accenting line, mass and proportion—light and shade. Stress is placed on primary considerations in beginning any drawing.
Fall Quarter—Credit, 3(0-6).
312. FREEHAND DRAWING. Problems in Freehand Perspective, Parallel and Angular—drawing from Casts and Still Life—Studies in Realistic and Decorative treatment. Introduction of problems particularly adaptable to different students' needs. Stress is placed on various types of treatment technique.
Prerequisite: 311.
Winter Quarter—Credit, 3(0-6).

313. COLOR. This course aims to give a working knowledge of color as to its use and enjoyment, color associations and significance, harmonies and contrasts, complementary and analogous colors, still life painting and simple landscape in color, realistic and decorative treatment, medium water color.

Prerequisites: 311 and 312.

Spring Quarter—Credit, 3(0-6).

314. COMPOSITION. Study of simple arrangement of lines, spaces, dark and light, balance, rhythm, subordination, transition, unity, values. Principles involved in pictorial composition are studied with definite application to Commercial Art.

315. COMPOSITION. Continuation of 314. Harmony building in dark and light, spotting, two and three values, background, accessories, sketches from nature and from memory. More than three values. Problems in harmony of color balance line and rhythm.

Prerequisite: 314.

Winter Quarter—Credit, 3(0-6).

316. COMPOSITION. Creating the picture; development of self-expression through picture making, figure composition, interiors and exteriors, grouping, original settings. Illustrating the story. A wide range of subjects are given to stimulate the imagination.

Prerequisites: 314 and 315.

Spring Quarter—Credit, 3(0-6).

317, 318, 319. PUBLIC SCHOOL ART. Fundamentals of Art teaching in the public schools, such topics as object drawing, simple landscape, posters, design color, illustration, animal and figure drawing adaptable to the grades are studied through special problems. Special attention is given to methods of presentation, blackboard drawing.

Summer Quarter—Credit, 3(0-6).

320. PERSPECTIVE. Series of problems presenting principles of Perspective as applied in freehand drawing of objects—interiors and exteriors—parallel and angular.

Winter Quarter—Credit, $\frac{1}{2}$ (0-1).

321. **COMMERCIAL ART.** Study of the utilization of Art and Art principles in industry. Art in advertising is studied through various types of advertising design. Lettering, headings, drawings in black and white and one and two colors, stippling. Stress is placed on the development of a good pen and ink technique, also pencil and wash.

Prerequisites: 311, 312 and 313.

Fall Quarter—Credit, 3(1-5).

322. **COMMERCIAL ART.** Layouts, exercises in the making of border designs, book covers, magazines, calendars, post-cards, drawing from photographs, enlarging, lettering, exercises in the use of showcard color as applied in the development of the poster; other mediums, tempera, pastel crayons.

Prerequisite: 321.

Winter Quarter—Credit, 3(0-6).

323. **COMMERCIAL ART.** Advanced problems in lettering poster work. Art advertising in general. Best black and white illustrations are studied and reproduced. Study of reproductive processes. Considerable work in figure drawing is included in this course; medium water color, wash, pen and ink and oil.

Prerequisites: 321 and 322.

Spring Quarter—Credit, 3(0-6).

324. **HISTORY.** Ancient architectural history from the pre-historic to the fall of the Roman Empire.

Fall Quarter—Credit, 5(5-0).

325. **HISTORY.** Mediaeval Architectural History. A continuation of 324.

Prerequisite: 324.

Winter Quarter—Credit, 5(5-0).

326. **HISTORY.** Renaissance and Modern Architectural History. A continuation of 325.

Prerequisite: 325.

Spring Quarter—Credit, 5(5-0).

ART APPRECIATION. Note: It is the aim of this course to acquaint the student with art principle, some knowledge of which is essential to the appreciation of Art products,

further to establish a greater interest in both the fine and applied Arts and lay a foundation for a better criteria of taste and increased enjoyment of beauty.

The principal works of representative artists of various schools are discussed and analyzed. Special attention is given to the works of the "Old Masters." This course is open to all college students.

- 327, 328, 329. ART APPRECIATION. Elements of beauty, broad interpretations of Art, Fine Arts, Useful Arts, Genesis of Art, general significance and uses of Art, creative impulse, pure Arts, representative Arts, Egyptian Art, Hellenic Art during the Periclean Alexandrian Periods. Early Christian Art, Masters of the Italian Renaissance, analysis and comparisons.

Fall, Winter and Spring Quarters—Credit, 1(1-0).

331. HISTORY OF ORNAMENT. Study and copy of the best examples of Historic Ornament, Egyptian, Greek Ornament, Early Christian, Byzantine, French and English Gothic.

Winter Quarter—Credit, 1(1-0).

- 337, 338, 339. ART APPRECIATION. Spanish Art during the 15th and 16th centuries; Velasquez, Murillo Franz Hals, Rembrandt, Rubens Art in England. France and America during the 17th, 18th and 19th centuries, Art Epochs and their leaders through the 19th century.

Prerequisites: 327, 328 and 329.

Fall, Winter and Spring Quarters—Credit, 1(1-0).

- 342, 343. LIFE DRAWING. Study of the Human Figure in Art; Art Anatomy, Action Portrait and Full Length Drawing from Life. Special attention is given to the study of the figure in action.

Prerequisites: 311, 312, 313.

Fall and Winter Quarters—Credit, 3(0-6).

- 347, 348. HISTORY OF AMERICAN ART CRAFTS during the colonial period; Silversmiths, Adam Bros., Duncan Phyfe, Chippendale, Sheraton. Beginning of painting in America; West, Copley, Stuart, The Hudson River School, Wyant, Innes, Homer, LaFavor, Whistler, Chase, Sarsgaard, Tanner. Beginning of sculpture in America, Wright, Powers, Goodough, Ward, Volk, French, Frazier, Taft, Ruckstuhl, St. Gaudens.

Fall and Winter Quarters—Credit, 1(1-0).

BIOLOGICAL SCIENCES**BACTERIOLOGY**

121. **GENERAL BACTERIOLOGY.** This is a course in the preparation of the usual culture media and the study of the morphological and biological characteristics of typical bacteria. A study of the relation of bacteria to health of man, animals and plants.
Prerequisite: General Biology or equivalent.
Winter Quarter—Credit, 5(3-4).
131. **ADVANCED BACTERIOLOGY.** A continuation of course 121.
Prerequisite: General Bacteriology 121.
Spring Quarter—Credit, 5(3-4).
132. **DAIRY BACTERIOLOGY.** This course treats of bacteria in milk and its products, also the changes, mode of entry and sources of bacteria.
Prerequisite: General Bacteriology 121.
Fall Quarter—Credit, 5(2-4).
133. **SOIL BACTERIOLOGY.** A course dealing with the important biological processes, the relation of soil biological activity to the mineral, sulphur, and nitrogen cycles and also decomposition of organic products, nutrient agars, etc.
Prerequisites: Chemistry 111 and Bacteriology 121.
Spring Quarter—Credit, 3(2-2).
141. **PATHOGENIC BACTERIOLOGY.** This course purposes to give to the student a practical familiarity with most of the pathogenic micro-organisms. Special attention will be paid to the morphology, cultural characteristics and pathogenicity.
Prerequisite: Bacteriology 121.
Winter Quarter—Credit, 4(2-4).

ZOOLOGY

111. **GENERAL ZOOLOGY.** This course will deal with the morphology, physiology, and taxonomy of the essential types of organic life in the animal kingdom. The characteristic differences in the development from protozoa through metozoa will be emphasized. Discussion of the various theories advanced in an attempt to explain evolution. Lab-

oratory work will supplement the lectures, and class discussions.

Fall Quarter—Credit, 4(3-2).

121. **COMPARATIVE ANATOMY AND PHYSIOLOGY.** The lectures on descriptive anatomy will cover the fundamental points from the preparatory point of view and will be illustrated by drawings, plates, models, the skeleton and dissection. A special consideration will be given to the various phases of anatomy, with stress placed upon osteology, myology, neurology and splanchnology. One-half of the quarter will be devoted to the study of Anatomy. The course in Physiology comprises demonstrations, lectures, recitation and experimental work. A study of the functions, organs and systems of organs will be duly emphasized. The arrangement of courses is as follows: Physiology of Muscle and Nerve; Physiology of the Blood; Physiology of Digestion, Secretion and Nutrition; Physiology of the Intergrumentary System.

Winter Quarter—Credit, 3(2-2).

122. **COMMUNITY HYGIENE.** This course will deal with the various sanitary measures employed today in reducing to a minimum the activities of pathogenic micro-organisms. An effort will be made to develop wholesome habits and attitudes, as well as to impart knowledge of how to prevent infection.

Winter Quarter—Credit, 3(3-0).

123. **EMBRYOLOGY.** Development, principles and processes, using vertebrate embryos. Germ cell origin and structure, maturation, fertilization, cleavage, differentiation, tissue formation organogeny.

Prerequisite: Zool. 111.

Spring Quarter—Credit, 3 hours.

131. **ECONOMIC ENTOMOLOGY, DISEASE AND PESTS.** The identification, life history, habits and methods of controlling insects of economic importance to the farm and home. Laboratory work will also include identification, collecting, mounting and preserving insects studied. The important plant diseases which affect the crop plants of the south.

A study of the symptoms exhibited by the host plant, the casual organism, and the control measures.

Prerequisites: Zoology 112, Botany 111, Chemistry 111a, 112a, Agron. 111, 112 (Agron. 131 and 132 recommended).

Spring Quarter—Credit, 3(2-2).

132. HISTOLOGY. This course will consist of lectures upon normal cell tissues and organs of the body of animals. The laboratory work will consist of demonstrations by the instructor, practical laboratory technique and the microscopic study of normal cells and tissues.

Winter Quarter—Credit, 4(3-2).

133. APICULTURE. A study of the essentials of bee-keeping, introducing the students to conditions applicable to North Carolina.

Spring Quarter—Credit, 3(2-2).

134. GENETICS AND EVOLUTION. An introduction to the study of variation, selection and inheritance in animals. Human heredity will be considered.

Fall Quarter—Credit, 3(3-0).

BOTANY

111. GENERAL BOTANY. The course is designed for two types of students (Agricultural and General Science). It is intended to give the fundamental facts, functions and principles of plant life. The laboratory includes a study of forms, structures, and methods of reproduction of representatives of the various groups of plants, with some attention to general life processes in higher plants and its relation to scientific agriculture.

Fall Quarter—Credit, 4(3-2).

112. ADVANCED BOTANY. (Formerly Bot. 121.) A continuation of course 111.

Prerequisite: Botany 111.

Spring Quarter—Credit, 3(2-2).

121. PLANT PHYSIOLOGY. (Formerly Bot. 122.) The plant is considered from the standpoint of activities; absorption, and transportation of raw materials, manufacture, storage of food, growth and movement in response to stimuli.

Spring Quarter—Credit, 3(2-2).

141. **SYSTEMATIC BOTANY.** A course intended to give the student some definite notions in regard to plant groups and their relationships. The structure classification and identification of flowering plants in North Carolina.

Prerequisites: Courses 111 and 121.

Spring Quarter—Credit, 3(2-2).

BUSINESS ADMINISTRATION AND COMMERCIAL EDUCATION

BUSINESS ADMINISTRATION COURSES

The purpose of the curriculum in Business Administration is to give a broad foundation to young men and women who propose to enter business by providing thorough training in approved business methods and practice, in the principles underlying the economic organization of modern society, and in the habit of clear thinking.

This course of study is open to juniors and seniors who have taken their Freshman and Sophomore work in the Science College or the equivalent.

COMMERCIAL EDUCATION

This curriculum aims to prepare young men and young women for important positions in the commercial world and to prepare teachers of commercial subjects in high schools and other institutions. There is an increasing demand for those who have had training in college courses such as are contained in this curriculum.

Students electing this course must have a practical knowledge of shorthand and typewriting by the end of their sophomore year. If the student has not acquired this preliminary training in shorthand and typewriting prior to entering college, he may elect it along with his freshman and sophomore work.

COURSES

231. **PRINCIPLES OF BUSINESS** (Formerly Economics 233). This course is designed to make the student acquainted with the whole field of business. Principles of Business offers a thorough background in the fundamentals of business organizations, management and finance. Each department of business—accounting, selling, credit, banking

and forecasting—is concisely, yet comprehensively, treated.

Students taking this course are expected to develop an original problem based upon community research. This work is carried on in order that the student may become familiar with the conditions he will find in the business world.

Principles of Business is required of all students majoring in the Department of Business Administration and those taking Secretarial Science.

Fall Quarter—Credit, 5(5-0).

232. ACCOUNTING FUNDAMENTALS (Formerly Economics 234). The fundamental principles of accounting, including a review of bookkeeping principles as well as consideration of the following divisions: Cash discounts, accrued assets and liabilities, statements, partnerships, controlling accounts and inventories.

Required of Business Administration students.

Prerequisites: Secretarial Science 211 or B. A. 231.

Winter Quarter—Credit, 5(5-0).

233. ACCOUNTING (Formerly Economics 235, 236). This course presents the underlying principles of accounting as it is practiced in the business world. It deals chiefly with corporation accounting and accounting systems. This is followed by a discussion of the principles underlying accounting valuation and interpretation. The uses to which accounting data are to be put are emphasized at every step.

Prerequisite: B. A. 232.

Spring Quarter—Credit, 5(5-0).

234. COMMERCIAL LAW (Formerly Economics 237). The course in Commercial Law is made to cover the whole school year and is divided into three quarters as follows: General Law, Contracts, Negotiable Instruments, Guaranty and Surety.

Fall Quarter—Credit, 3(3-0).

235. COMMERCIAL LAW (Formerly Economics 238). Sales of personal property, bailments, common carriers, agency, master and servant, and partnership.

Winter Quarter—Credit, 3(3-0).

236. COMMERCIAL LAW (Formerly Economics 239). Corporations, insurance, wills, estates in land, landlord and tenant.

Spring Quarter—Credit, 3(3-0).

237. PRINCIPLES OF SALESMANSHIP (Formerly Economics 247). This course is based upon actual experience of men successful in the field of salesmanship. It develops the subject from sound economics, philosophical and psychological points of view. Economics of salesmanship are presented so that the student may see where the work performed is justifiable and necessary in the economic regime. The course includes psychology so that the student may more readily adjust himself to actual sales conditions and learn why some men and ideas succeed while others fail.

Fall Quarter—Credit, 5(5-0).

238. PRINCIPLES OF ADVERTISING (Formerly Economics 248). This course gives a clear analysis of modern advertising in all its phases. Each step in the conception, design and production of the finished advertisement is explained. The operations of various departments in a modern advertising office are discussed. Students desiring knowledge of the greatest problem, the problem of creating new wants and needs of the modern world, should take this course.

Winter Quarter—Credit, 5(5-0).

239. BUSINESS CORRESPONDENCE (Formerly Economics 241). This course makes a thorough and practical analysis of all forms of business letters and gives constructive information on how to write letters that convince, whether they be sales letters, follow-up letters, form letters, complaint, collection or application letters. This course is required of all students in Business Administration and Secretarial Science.

Spring Quarter—Credit, 5(5-0).

241. COST ACCOUNTING (Formerly Economics 255). This course is a study of the elements and principles of cost accounting. Emphasis is laid on accounts as a means of administrative control and economy of production. The theory of cost accounting and its relation to general accounting, to cost in general, to stock records, and to meth-

ods of establishing the basis of cost are among the fundamentals considered in this course.

Prerequisites: 232, 233.

Fall Quarter—Credit, 5(5-0).

242. ACCOUNTING SYSTEMS (Formerly Economics 258). This course deals with the mechanical operation of a business organization, and the principles underlying the development and control of the account records involving the ways and means of handling cash, inventories, purchases and sales.

Special attention is given to systems of insurance companies, banks, building and loan associations, municipalities, railroads, etc. This course is suited for those who hope to enter the accounting field.

Prerequisites: 232, 233, 241.

Winter Quarter—Credit, 5(5-0).

243. AUDITING (Formerly Economics 244). This course is given to those who have had a good background in accounting fundamentals. Some of the points covered are: How to begin an audit, what to do during an audit, and how to end an audit. Much attention is given to the application of the principles through laboratory work.

Prerequisites: B. A. 232, 233, 241, 242.

Spring Quarter—Credits, 5(4-2).

244. PRINCIPLES OF MARKETING (Formerly Economics 253). In this course the following points are analyzed; The marketing of farm products, manufactured goods and raw materials, the position and function of various types of middle men, insurance, transportation and storage. Much consideration is given to the selection of markets through market analysis. The course concludes with serious discussions of the popular proposals to eliminate middlemen, the nature and function of public markets, the ideals of co-operative marketing, and advantages and disadvantages of governmental participation in marketing activities.

Fall Quarter—Credit, 5(5-0).

245. MARKETING FARM PRODUCTS (Formerly Economics 263). This course covers the fundamentals of the science of marketing as it applies to farm products.

Winter Quarter—Credit, 5(5-0).

246. DOMESTIC AND FOREIGN TRADE (Formerly Economics 259). In addition to making a careful study of shipping practices this course makes an excellent treatment of the financing of foreign trade, including legislation enacted to stimulate export commerce.

Spring Quarter—Credit, 5(5-0).

247. BUSINESS FINANCE (Formerly Economics 245). This course is a survey of the financial problems which confront the manager of a small or medium size trading or manufacturing company. Business finance covers step by step, the many financial stages which arise in the conception, promotion, organization and expansion of a commercial enterprise.

Fall Quarter—Credit, 5(5-0).

248. CORPORATION FINANCE (Formerly Economics 251). The methods used by corporations in organization and finance are thoroughly dealt with in this course. That part of the course which deals with corporation is concerned chiefly with the legal aspects of corporation to the state. Under finance, the points considered deal with promotion, financial plans, stockholders' rights and the whole field of corporation activity in its relations to finance and banks.

Winter Quarter—Credit, 5(5-0).

249. INVESTMENTS (Formerly Economics 246). Investments is a most practical course, offering concise, comprehensive and up-to-date information on the subject. An important part of the course deals with listed and unlisted securities. Students desiring information on the most fertile field in the business world today are advised to take this course.

Spring Quarter—Credit, 5(5-0).

251. BUSINESS MANAGEMENT (Formerly Economics 243). Management covers the fundamentals of industrial organization and operation and helps the student to gain that basic knowledge of business which should be part of the equipment of every business man.

Fall Quarter—Credit, 5(5-0).

252. OFFICE MANAGEMENT. Office management covers the principles and methods employed in departmental and centralized offices. Special attention is given to office layout, office systems, equipment, selecting workers and general office services.

Winter Quarter—Credit, 5(5-0).

253. PERSONNEL ADMINISTRATION (Formerly Economics 257).

This is a comprehensive course dealing with the principles and practices in the administration of employees of commercial and industrial establishments. The course is very practical, giving the student a view of personnel as the business man sees it.

Spring Quarter—Credit, 5(5-0).

254. ELEMENTS OF STATISTICAL METHOD (Formerly Economics 267). A course intended to acquaint students with the elementary principles of statistics. The course and collection of data, the nature of statistical units; the properties and appropriate use of averages; methods of comparison; the tabular and graphic presentation of statistical information necessary to the formulation and execution of business and economic problems will be had through use of appropriate data.

Fall Quarter—Credit, 4(2-4).

255. SALES ADMINISTRATION (Formerly Economics 252). A study of the principles of sales organizations and their methods in management, administration and other functions related to the hiring, training and remunerating salesmen, building up sales morale, co-ordination between sales department and other departments of the business are the main points covered in this course.

Winter Quarter—Credit, 5(5-0).

256. INSURANCE (Formerly Economics 256). This course is a survey in a general way of the whole field of insurance. It deals with the nature and statistical basis of different kinds of insurance as: Property insurance, straight life, endowment, accident, industrial, old age, fire, livestock, etc. The function of publicity and the needs for educating the public in the principles and services of insurance receives much attention.

Spring Quarter—Credit, 5(5-0).

257. PRINCIPLES OF REAL ESTATE (Formerly Economics 249).

This course deals with the problems of real estate as follows: Real estate as a profession, classes of property—suburban, apartment, industrial, farm and resort—rentals, leasing, the work of the broker, property management and financing.

Fall Quarter—Credit, 5(5-0).

258. BUSINESS FORECASTING (Formerly Economics 254). This course deals with the practical fields of forecasting and is illustrated by examples in the following fields: Agricultural forecasting, the forces of business cycles, why business conditions change, etc.

Winter Quarter—Credit, 5(5-0).

259. CREDIT AND COLLECTIONS (Formerly Economics 261). The principles and problems of credit, the organization of the credit department, how these forces affect the concern as a whole, analysis of credit information and the legal aids to credit management are the chief points considered in this course.

Spring Quarter—Credit, 5(5-0).

CHEMISTRY

111. GENERAL CHEMISTRY. A course covering the fundamental principles of chemistry, the properties, reactions, and uses of the various metallic elements and their compounds. Lectures, Demonstration, and Laboratory.

Fall and Winter Quarters—Credit, 5(3-4).

112. GENERAL CHEMISTRY. A completion course in general chemistry, with a detailed study of the metals and their compounds. Lectures, Demonstration, Laboratory.

Prerequisite: Chemistry 111.

Winter and Spring Quarters—Credit, 5(3-4).

113. QUALITATIVE ANALYSIS. This course is an intensive course dealing with the fundamental principles of analysis. It develops the power for the student to form decisions based upon experimental results. Preliminary experiments are introduced to illustrate chemical principles and to give practice in equation writing. The students are required to analyze unknown products, slags, and alloys.

Prerequisites: Chem. 111, 112.

Fall and Spring Quarters—Credit, 5(2-6).

122. ORGANIC CHEMISTRY. A course dealing with the chemistry of the carbon compounds. Special emphasis is laid upon the relationship existing between the various groups. Upon the application of fundamental physico-chemical

principles to the study of such compounds, and upon methods or organic synthesis. Lectures and Laboratory.

Prerequisites: Chem. 111, 112, 113.

Fall Quarter—Credit, 6(3-6).

123. ORGANIC CHEMISTRY. A continuation of Chemistry 122, covering such compounds as the ring structure or aromatic compounds. This course is indispensable to students undertaking the study of Agriculture, Medicine, and Drugs. Lectures and Laboratory.

Prerequisites: Chem. 122.

Winter Quarter—Credit, 6(3-6).

124. ADVANCED ORGANIC CHEMISTRY. Lectures on the applications and limitations of organic reactions, with special reference to synthesis.

Prerequisite: Chemistry 122, 123.

Fall and Spring Quarters—Credit, 3(3-0).

125. ADVANCED ORGANIC CHEMISTRY. A continuation of Chemistry 124.

Prerequisite: Chemistry 124.

Winter Quarter—Credit, 3(3-0).

131. QUANTITATIVE ANALYSIS. A course dealing with Gravimetric Methods of Analysis. Special emphasis is laid upon the physico-chemical principles upon which the success of the determination depends.

Prerequisite: Chem. 113.

Fall and Winter Quarters—Credit, 5(2-6).

132. QUANTITATIVE ANALYSIS. A continuation of Chemistry 131, dealing with Volumetric Methods of Analysis. Lectures and Laboratory.

Prerequisite: Chem. 131.

Winter Quarter—Credit, 5(2-6).

133. QUALITATIVE ORGANIC ANALYSIS. A lecture and laboratory course dealing with the classification, reactions, and identification of organic compounds.

Prerequisite: Chem. 124, 125.

Spring Quarter—Credit, 3(1-4).

134. QUANTITATIVE ORGANIC CHEMISTRY. Training in the quantitative determination of the elements and radicals in organic compounds.

Prerequisites: Chemistry 131, 132, 122, 123.

Any Quarter—Credit, 2(0-4).

143. PHYSICAL CHEMISTRY. Three lectures each week.
Prerequisite: Organic Chemistry, and acceptable course in physical training.
Fall Quarter—Credit, 3(3-0).
145. INDUSTRIAL CHEMISTRY. Three lectures or recitations a week.
Prerequisite: Acceptable courses in Inorganic and Organic Chemistry.
Spring Quarter—Credit, 3(3-0).
147. COLLOID CHEMISTRY. Three lectures or recitations each week.
Prerequisite: Acceptable courses in Physical Chemistry.
Fall Quarter—Credit, 3(3-0).
149. ELECTRO-CHEMISTRY. Lectures and Laboratory. Credit and hours to be arranged.
Prerequisites: Acceptable courses in Organic Chemistry and Physical Chemistry.
151. ADVANCED INORGANIC CHEMISTRY.
Prerequisite: Acceptable courses in general chemistry and qualitative and quantitative analysis.
Any Quarter. Hours and credit to be arranged.
170. CHEMISTRY SEMINAR. Discussions of recent advances in chemistry. Open to students majoring in the field.
Fall, Winter and Spring Quarters—Credit, 1(1-0).
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CONTRACTING AND BUILDING

311. MATERIALS OF CONSTRUCTION. Recitation and laboratory. A brief study of the types of material used in building and construction work. Methods of purchasing and commercial prices. A close insight into manufacturing is obtained through visits to several building materials manufacturing companies in the vicinity of Greensboro.
Fall Quarter—Credit, 3(3-0).
312. PLAN READING. Lecture recitation and laboratory. A complete course in the correct interpretation of architect's plans and specifications. Full size plans of brick, frame,

and reinforced concrete buildings are used throughout the course. Visits to the several buildings shown on the plans give the student opportunity to check on the accuracy of the construction.

Winter Quarter—Credit, 3(3-2).

313. PLAN READING. Lecture, recitations and laboratory. Correct interpretation of architect's plans and specifications. A continuation of 312.

Spring Quarter—Credit, 3(2-2).

314. CARPENTRY. Recitation and laboratory. A study of the use and care of carpenters' tools. Timber and lumber for building purposes; general framing.

Fall Quarter—Credit, 4(2-4).

315. CARPENTRY. Recitation and laboratory. Construction and application of interior finish; millwork, moulding, etc.

Winter Quarter—Credit, 5(2-6).

316. CARPENTRY. Recitation and laboratory. General framing, joinery, exterior covering, and finish. Construction methods, concrete forms.

Spring Quarter—Credit, 5(2-6).

321. MASONRY. Lectures and laboratory. Basic principles of brick laying. Practice in construction of piers, straight walls, sills for various openings.

Fall Quarter—Credit, 5(2-6).

322. MASONRY. Lectures and laboratory. A continuation 321. Practice in constructing flues, single chimneys, arches, walls.

Winter Quarter—Credit, 5(2-6).

323. MASONRY. Lectures and Laboratory. A continuation of course 322. Practice in construction of various types of low rock walls, hollow tile, face brick, and veneer construction.

Spring Quarter—Credit, 5(2-6).

324. FOUNDATIONS. Preparation of building site. Methods of excavating. Estimating excavations. Methods of mixing and placing concrete; proportion of ingredients; concrete floors and walks. Making unit cost and quantity estimates from architects' plans and specifications.

Fall Quarter—Credit, 3(3-0).

325. ELECTRIC WIRING. Recitation and laboratory. Theory and practice on the installation of electrical service. Electrical wiring, knob and tube conduit work. Estimating. Winter Quarter—Credit, 4(2-4).
326. LATHING AND STUCCO PLASTERING. Recitation and laboratory. Application of wood and metal lath. Plastering and stucco work. Types of plaster. Estimating from blue prints. Sample problems. Spring Quarter—Credit, 5(2-6).
331. PLUMBING AND HEATING. Recitation and laboratory. Lectures and recitations on the installation of plumbing and heating systems. City requirements. Methods of estimating. Fall Quarter—Credit, 5(3-4).
332. CARPENTRY. Recitation and laboratory. The steel square and its application in roof framing. Laying out commons, hips, valleys, and all types of jack rafters by the square root method; the length per foot of run method; the method of measuring across the square; applying the square method; and through the use of various rafter tables. Figuring roof areas. Fall Quarter—Credit, 5(2-6).
333. CARPENTRY. Recitation and laboratory. Stair building definition and terms: Designing steps; enclosed stairs; closed stringer stair; open stringer stair with bull nose step; quarter stair with windows. Winter Quarter—Credit, 5(2-6).
334. CARPENTRY. Recitation and laboratory. A continuation of stair building. Estimating carpentry and millwork. Unit cost estimates. Spring Quarter—Credit, 5(2-6).
335. MASONRY. Recitation and laboratory. Veneer construction. Brick mantel and chimney construction. Line practice. Winter Quarter—Credit, 4(2-6).
336. MASONRY. Recitation and laboratory. Masonry continued. Classification of brick. Estimating tables on labor and material required. Unit cost and quantity estimating. The application of the Duodecimal System in estimating. Spring Quarter—Credit, 3(3-2).

341. REINFORCED CONCRETE. Lecture and laboratory. Handling steel. Taking off quantities from architect's plans and specifications. Unit costs. Sample problems.
Fall Quarter—Credit, 4(2-4).
342. PAINTING AND DECORATING. Lecture and laboratory. Types of painting materials. Preparation of surfaces. Interior work. Covering capacities. Quantity and unit cost estimates. Sample problems in estimating.
Winter Quarter—Credit, 3(1-4).
343. FIREPROOF CONSTRUCTION. Lecture and laboratory. Types of material used. Floor construction. Tile arches and partitions. Fireproofing of beams and girders, columns. Taking off quantities. Estimates of labor required. Sample problems in estimating.
Fall Quarter—Credit, 3(2-2).
344. STEEL CONSTRUCTION. Lecture and laboratory. Types of steel units. Bending forms. Shop drawings. Erection. Taking off quantities. Estimating problems.
Fall Quarter—Credit, 3(2-2).
345. SHEET METAL WORK. Lecture and laboratory. Sheet metal roofing. Metal ceilings. Methods of estimating cornices, gutters, ventilators, sky lights, ceiling, etc. Sample problems in estimating.
Winter Quarter—Credit, 3(2-2).
346. BUILDING SUPERINTENDENCE. Technical knowledge, methods, personality, handling men, management, routing work, job records.
Fall Quarter—Credit, 3(3-0).
347. BUILDING SUPERINTENDENCE. A continuance of course 346.
Prerequisite: 346.
Winter Quarter—Credit, 3(3-0).
348. BUILDING SUPERINTENDENCE. A continuance of course 347. The spring term of the course in Builders Accounting, and the spring term of the course in Building Superintendence will be on a co-operative basis in conjunction with building contractors in the State of North Carolina.

The student will spend the entire spring term on construction jobs with contractors and builders selected by the college. The student is required to make progress reports to the college at the end of each week.

Spring Quarter—Credit, 15(0-30).

349. BUILDERS COST ACCOUNTING. Bookkeeping and accounting systems for contractors. The importance of costs and how to keep them. Time keeping systems. Miscellaneous forms for contractors.

Winter Quarter—Credit, 3(3-0).

3410. BUILDERS COST ACCOUNTING. A continuation of course 349, with practical work.

Spring Quarter—Credit, 2(0-4).

ECONOMICS

231. PRINCIPLES OF ECONOMICS. This course begins with a study of such as: The nature and scope of economics, characteristics of the present society, and ends with a consideration of the economic development of the United States.

Fall Quarter—Credit, 5(5-0).

232. ECONOMIC PROBLEMS. This course is concerned with the important economic problems found in our productive and consumptive processes, commerce, market prices, variations and adjustments in business, forms of business organization, labor, capital, banking, public ownership and other related topics.

Winter Quarter—Credit, 5(5-0).

242. MONEY AND CREDIT. This course is a critical study of the theories and principles governing money, credit, and price levels. It is concerned with monetary standards, inflation and deflation, index numbers, international trade and purchasing power.

Spring Quarter—Credit, 5(5-0).

245. SEMINAR. Open only to seniors with a major in economics.

Credit, 3(0-6).

262. **PUBLIC FINANCE.** This course deals with a thorough discussion of the following: Public expenditures, local, state and national forms of taxes, customs and fees whereby revenue is raised. The management of local and national debts are also points analyzed in this course.

Fall Quarter—Credit, 5(5-0).

264. **LABOR LEGISLATION.** This course is concerned (1) with the problems of labor and (2) with labor legislation, both federal and state. The subjects of labor contracts, the minimum wage, child labor, legislation and court decision, safety and health, women in industry, etc., are discussed fully.

Fall Quarter—Credit, 5(5-0).

267. **THE PROBLEM OF UNEMPLOYMENT.** The problem of unemployment, various plans for its prevention, unemployment insurance, industrial accidents, rules of employees' liability, compensation legislation, and its administration; sickness and the movement for health insurance; old age and dependence, contributory insurance and pension plans.

Class room discussion supplemented with lectures by public officials concerned in the administration of labor laws.

Spring Quarter—Credit, 5(5-0).

271. **AGRICULTURAL ECONOMICS.** A general course taking up economics and social problems of agriculture; importance of agriculture in the United States, demand and supply; labor, machinery, equipment, rural credits, transportation problems, price fluctuations, speculation, land tenure, rent and systems of renting, county agent and farm bureau, state aid, taxation, protective tariff, foreign competition, principles of marketing, and the world's food supply.

Fall Quarter—Credit, 5(5-0).

273. **FARM MANAGEMENT.** A study of the principles involved in the choice of a proper type of farm; comparative merits of intensive and extensive farming; relation of livestock to farm management; size of farms and the amount of capital in relation to profits; labor in relationship to profits; labor in relationship to machinery; and the layout of fields and buildings.

Spring Quarter—Credit, 3(3-0).

EDUCATION

211. **ORIENTATION.** This course is designed to give the student an insight into college life. The course consists of lectures and discussions relating to the problems of the college student. Suggestions are given as to methods of studying, note taking, extra curricula activities, use of the library, choosing courses of study to meet the requirements of various vocations, etc.

Fall Quarter—Credit, 1(1-0).

212. **OCCUPATIONS.** This course aims to help the individual student find his place in the world of occupations. An effort is made to broaden the student's outlook before he becomes a part of the occupational world. A study is made of the various industries and occupations: Government service, commercial occupations, earth occupations—agriculture, mining, etc.; transportation; banking, etc. The professions—law, medicine, teaching, social service, engineering, etc. Personal service and professions for entertainment, dressmaking, tailoring, hotel and restaurant, musicians, artists, actors, etc. Special attention is given to the personal qualifications and opportunities for the various occupations.

Winter Quarter—Credit, 1(1-0).

213. **OCCUPATIONS.** This course is a continuation of 212.

Spring Quarter—Credit, 1(1-0).

221. **GENERAL PSYCHOLOGY.** An introduction to psychological terms, principles and facts. What psychology is and does. A study of reactions and tendencies to reaction; Native and Acquired Traits, Instincts, Emotions, Feelings, Sensation.

Fall Quarter—Credit, 4(4-0).

222. **GENERAL PSYCHOLOGY.** A continuation of psychology course 221, with a special study of the following: Attention, Intelligence, Learning and Habit Formation, Perception, Reasoning, Imagination, Will and Personality. Discussions and reports.

Winter Quarter—Credit, 4(4-0).

223. **HISTORY OF EDUCATION.** As an introduction to education: A short history underlying the principles and methods of education. Problems affecting the elementary and secondary schools will be given.

Spring Quarter—Credit, 5(5-0).

226. **THE JUNIOR HIGH SCHOOL.** This course covers such problems as the aims, functions, curricula of the junior high school; the teacher, pupil, and program. Lectures, discussions, collateral reading and reports.

Winter Quarter—Credit, 5(5-0). Not offered 1931-32.

231. **EDUCATIONAL PSYCHOLOGY.** This course is devoted to a study of native and acquired traits and capacities of children; the learning process; individual differences; general laws and conditions of learning; and the results of investigations relative to the progress of learning in the school subjects.

Prerequisites: Education 221 and 222.

Fall and Summer Quarter—Credit, 3(3-0).

232. **EDUCATIONAL PSYCHOLOGY.** This course is a continuation of Education 231. Such additional problems as Ideational Learning, Thinking and the Transfer of Training will be taken up. Each student will be required to make a study and report on the psychology of one of the school subjects.

Winter Quarter—Credit, 3(3-0).

233. **A COMPARATIVE STUDY OF SCHOOL SYSTEMS.** A Comparative Study of School Systems. Universal and local problems affecting the following countries: England, France, Germany, Australia, Canada, etc., will be given special attention.

Spring or Summer Quarter—Credit, 3(3-0).

234. **SCHOOL ADMINISTRATION.** A special course for elementary and high school principals. Required of all students preparing for administrative work.

Winter or Summer Quarter—Credit, 5(5-0).

235. **CURRICULUM CONSTRUCTION.** This course is concerned with a study of the aims, objectives and ideals of education, selection of educational material, standards and methods of evaluation, and organization, with special emphasis on the program of reorganization.

Fall Quarter—Credit, 3(3-0).

236. TESTS AND MEASUREMENTS. Principles of testing; aims and objectives; achievement tests; mentality tests; aptitude tests; teachers' marks; methods of content examination; use of tests. Required of all planning to teach.
Prerequisite: 232.
Spring Quarter—Credit, 5(5-0).
237. PROBLEMS IN SECONDARY EDUCATION. The scope and function of the High School and its relation to the elementary school and college; the high school pupil; high school curriculum; high school teacher; guidance; teaching loads; professional ethics; extra-curricula activities. Required of all who plan to teach.
Winter and Summer Quarter—Credit, 3(3-0).
238. PROBLEMS IN SECONDARY EDUCATION. This course is a continuation of Education 237.
Winter Quarter—Credit, 3(3-0).
239. EDUCATIONAL SOCIOLOGY. This course is concerned with a critical study of the movements and tendencies affecting our present social organization. Special emphasis will be given to the part which education plays in social expansion and growth.
Prerequisites: Education 222 and Sociology 231.
Spring Quarter—Credit, 3(3-0).
241. APPLIED PSYCHOLOGY. This course is devoted to a critical study of the principles of psychology as they relate to learning. Special attention will be given to such questions as the importance of ideals and attitudes in learning.
Prerequisites: Education 222 and 232.
Spring or Summer Quarter—Credit, 3(3-0).
243. TEACHING OF ENGLISH. This course is a study of the special problems which confront the teacher of English in the high school. Open only to seniors. Required of those planning to teach English.
Prerequisites: English 211, 212 and 223 or equivalent.
Winter Quarter—Credit, 5(5-0).
244. THE TEACHING OF CHEMISTRY. This course deals with the problems that confront the teacher of Chemistry in the high school. Special attention is given to such problems as the planning of laboratories, purchase of supplies,

and subject matter of the high school course. Required of those planning to teach the subject.

Prerequisites: Acceptable courses in general analytical and organic chemistry.

Winter Quarter—Credit, 5(5-0).

245. THE TEACHING OF HISTORY. A course dealing with a study of the methods of teaching history in high school. Special attention will be given to such problems as the organization of material, class room equipment, etc. Open to seniors. Required of those planning to teach Social Sciences.

Prerequisite: Five quarters of European and American History.

Winter Quarter—Credit, 5(5-0).

246. THE TEACHING OF MATHEMATICS. A course which deals with the evaluation of subject matter, modes, methods, and objectives in the teaching of Mathematics in the Junior and Senior high school. Required of those planning to teach the subject.

Prerequisite: Two quarters in Mathematics.

Winter Quarter—Credit, 5(5-0).

247. THE TEACHING OF FRENCH. This course is devoted to a study of the problems and difficulties experienced in teaching Foreign Languages. Special attention is given to the matter of class room aids, equipment, etc. Required of those students planning to teach Language.

Prerequisite: Three quarters of College French.

Winter Quarter—Credit, 5(5-0).

248. THE TEACHING OF GERMAN. A critical study of contemporary methods of teaching the Germanic languages. Required of those planning to teach German.

Prerequisite: Three quarters in German.

Credit, 5(5-0).

249. THE TEACHING OF SCIENCE. A study of the present methods of teaching such courses as Physics and General Science in the high school. Special attention will be given to the equipment of laboratory, etc. Required of those planning to teach in the field.

Prerequisite: Three quarters in the Natural Sciences.
Credit, 5(5-0).

250. PROBLEMS OF THE COMMERCIAL TEACHER. Organization, preparation and care of materials, followed by an analysis of the methods and procedure, standards and objectives of the teacher of commercial subjects in high school.

Winter Quarter—Credit, 5(5-0).

251. OBSERVATION AND PRACTICE TEACHING. All students planning to teach are required to spend at least thirty hours in practice teaching in a secondary school.

Spring Quarter—Credit, 5(1-8).

- 271, 272, 273. MATERIALS AND METHODS OF TEACHING VOCATIONAL AGRICULTURE. The following topics are considered: The Smith-Hughes Act; the Agricultural curriculum; seasonal sequence of topics; lesson plans; supervised study; laboratory work; field trips; room and equipment; supervised practice; records; organizing and conducting short unit, part-time evening and all-day classes; conducting farm shop practice; making community surveys; making annual plans and program of work.

(This course will extend throughout the year in order that the student may get experience in all kinds of patterns.)

Fall, Winter and Spring Quarters—Credit, 3(3-0); 2(2-0); 1(1-0).

- 274, 275, 276. OBSERVATION AND DIRECTED PRACTICE TEACHING IN VOCATIONAL AGRICULTURE. This course is to be taken simultaneously with courses 271, 273. Students are expected to do directed teaching in approved schools. Trainee will have opportunity to meet, under natural conditions, as many situations as possible.

Prerequisite: All work below Senior year.

Fall, Winter and Spring Quarters—Credit, 2(0-4); 3(0-6); 1(0-2).

278. EXTENSION SERVICE. A study of the development of the Agricultural Extension Service in the United States, with special reference to the status of this service among the Negroes in the Southern States; also a study of the rules, regulations and special methods relative to this work in North Carolina.

Prerequisite: All work below Senior year.

Fall Quarter—Credit, 5(5-0).

279. **OBSERVATION AND DIRECTED PRACTICE IN EXTENSION SERVICE.** Student will be required to go on the field and under the direction of an agent to observe and practice some of the principles learned in course 278.
Fall or Winter Quarter—Credit, 5(0-10).
280. **SEMINAR.**
Any Quarter—Credit, 1(1-0).
331. **VOCATIONAL EDUCATION.** A study of the meaning and need of vocational education. Problems of vocations are discussed from the standpoint of the individual groups, and economic society as a whole.
Spring Quarter—Credit, 3(3-0).
332. **TRADE ANALYSIS.** This course gives the student a knowledge of organizing trades and industrial arts courses. Emphasis is put on the selection of a line of useful and practical projects and the grouping of these projects in the order of their learning difficulties.
Winter Quarter—Credit, 3(3-0).
333. **MATERIALS, EQUIPMENT AND SHOP RECORDS.** The problems of equipping and arranging trades and industrial arts shops, and the care of materials, tools, safety first, and records, are discussed.
Winter Quarter—Credit, 3(3-0).
341. **VOCATIONAL GUIDANCE.** The problem of vocational guidance, its beginning, organization and administration in high schools. Special attention will be given to guidance in the Junior and Senior high schools as it relates to the work of Industrial Arts.
Fall Quarter—Credit, 3(3-0).
342. **ORGANIZATIONS OF INDUSTRIAL ARTS.** Industrial Arts, its development, present trend, content and methods, aims and objectives in the Junior high school.
Winter Quarter—Credit, 3(3-0).
343. **METHODS OF TEACHING SHOP AND RELATED SUBJECTS.** Fundamental factors in teaching, agencies of education, class room management, selection of problems and projects, job sheets and lesson plans.
Winter Quarter—Credit, 3(3-0).

344. ORGANIZATION OF PART-TIME SCHOOLS AND CLASSES. A study of the part-time and continuation schools and their relation to our educational system. Attention is given to the purpose, program, and organization of part-time education.

Fall Quarter—Credit, 3(3-0).

345. OBSERVATION AND PRACTICE TEACHING. Opportunity for observation and practice teaching will be provided. Trades and Industrial Arts teachers may acquire experience in lesson planning and teaching under the direction of the teacher-training.

Spring Quarter—Credit, 3(3-0).

ELECTRICAL ENGINEERING

331. DIRECT CURRENT MACHINERY. A study of magnetism, motors and generators as to the performance characteristics. Lectures and laboratory experiments.

Fall Quarter—Credit, 5(3-4).

332. Continuation 331.

Winter Quarter—Credit, 5(3-4).

333. ALTERNATING CURRENT MACHINERY. A study of alternators, induction and synchronous motor converters. Lectures and laboratory experiments.

Fall Quarter—Credit, 5(3-4).

- 341, 342, 343. ELECTRICAL DESIGN. A study of electrical design, including problems in magnets, motors, alternators and transformers.

Fall, Winter and Spring Quarters—Credit, 3(3-0) each.

345. GENERATING STATIONS. Care of instruments, transformers and prime movers and a study of economic management of substation equipment.

Fall Quarter—Credit, 3(3-0).

346. TELEGRAPHY AND TELEPHONY. Installation, maintenance and testing of telephone and telegraph lines.

Fall Quarter—Credit, 5(3-4).

- 347-348. AUTOMATIC TELEPHONE. A study of automatic and semi-automatic telephone exchanges.

Winter and Spring Quarters—Credit, 5(3-4) each.

350. **INDUSTRIAL MOTOR CONTROL.** A study of manual and automatic control in connection with a detail investigation of control apparatus and wiring diagrams.
Winter or Spring Quarter—Credit, 3(3-0).
351. **ELECTRIC TRANSMISSION LINE.** A study of power distribution, wiring for lighting and substation feeder systems.
Spring Quarter—Credit, 3(3-0).
352. **STORAGE BATTERIES.** A study of various types of secondary cells and so far as their operating characteristics and engineering applications are concerned.
Winter or Spring—Credit, 5(3-4).
353. **ELECTRIC RAILWAYS.** The course deals with the principles and designs of various types of electric railway construction.
Spring Quarter—Credit, 3(3-0).
354. **RADIO CIRCUITS.** Consists of a study of receiving and transmitting apparatus as well as filter circuits and telephone amplifying equipment.
Spring Quarter—Credit, 2(2-0).
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ENGLISH LANGUAGE AND LITERATURE

211. **ENGLISH COMPOSITION.** (Required of all Freshmen.) Review of the principles of Grammar and Syntax, Punctuation, and Spelling. Frequent oral and written exercises, theme, and letter writing. Constant drill in the rudiments of English Composition.
Any Quarter—Credit, 5(5-0).
212. **ENGLISH COMPOSITION.** (Required of all Freshmen.) Analytical study of the principles of structure and style in the whole composition, the paragraph, and the sentence. Exposition and Argument; Descriptive and Narrative writing. Frequent themes and analysis of specimens of prose composition.
Any Quarter—Credit, 5(5-0).
213. **ENGLISH COMPOSITION.** (Required of all Freshmen who have failed in either 211 or 212.)
Spring Quarter—Credit, 0(5-0).

215. **NEGRO LITERATURE.** A survey of important Negro writers and their place in modern American literature. The work of the course consists of readings, reports, oral and written, and one special topic.

Winter Quarter—Credit, 3(3-0).

220. **AMERICAN LITERATURE.** Reading in early American Literature. Manifestations of Puritanism and incipient Romanticism as revealed in the works of representative authors.

Winter Quarter—Credit, 5(5-0).

221. **AMERICAN LITERATURE.** Continuation of 220. An examination will be made of the more important phenomena of Romanticism that were developed by American writers during the nineteenth century. Lectures, assigned reading, reports on special topics, and the independent investigation of romantic and realistic tendencies in recent and contemporary literature.

Spring Quarter—Credit, 5(5-0).

222. **DEVELOPMENT OF ENGLISH LITERATURE IN OUTLINE.** (Required of all Sophomores.) Reading in English Literature from the beginnings to 1700. Study of the growth of ideas and institutions, of the types of literature, and of the great personalities who have contributed most to our literature. Lectures. Reports.

Fall Quarter—Credit, 5(5-0).

223. **DEVELOPMENT OF ENGLISH LITERATURE IN OUTLINE.** (Required of all Sophomores.) Continuation of 221. English Literature from 1700 to the twentieth century. Lectures. Reports.

Winter Quarter—Credit, 5(5-0).

231. **JOURNALISM.** Theoretical and practical work in recognizing, gathering, and writing news. While primary attention is given to the development of journalistic technique, there is considerable drill on the fundamental principles of composition, and, in general, all written work is rewritten after detailed criticism by the instructor.

Fall Quarter—Credit, 5(5-0).

232. **PRINCIPLES AND PRACTICE OF PUBLIC SPEAKING.** The methods of securing the attention and maintaining the interest of an audience. Practice in the application of principles and methods to simple exposition and argumentation.
Fall Quarter—Credit, 3(3-0).
233. **DRAMATICS.** A course in acting, playwriting, and dramatic production, with some attention given to the history of the drama. The presentation of dramatic programs and selected plays required.
Fall Quarter—Credit, 5(5-0).
234. **SHAKESPEARE.** A detailed study of Macbeth, Henry IV, Part I, and King Lear. Richard II, Henry IV, Part II, Julius Caesar, and *All's Well that Ends Well* to be read outside of class. Shakespearean criticism, memory passages, and a report on special topic.
Spring Quarter—Credit, 5(5-0).
235. **CHAUCER.** Introduction to Middle English literature. Most of the Canterbury Tales will be read in class. Lectures; outside reading; reports.
Winter Quarter—Credit, 5(5-0).
236. **ARGUMENTATION AND DEBATING** (Formerly English 213). A specific thorough study of the principles of Argumentation. Briefs on several questions are constructed, at least one complete argument on a carefully chosen question is required, and several informal arguments are written. Discussions, lectures, and class debates designed to emphasize the phrasing and analysis of the proposition, methods of refutation and platform decorum.
Fall Quarter—Credit, 5(5-0).
237. **THE AMERICAN NOVEL.** A study of the beginning and the development of the novel in America, with special emphasis on the modern novel. Lectures, assigned reading, special reports both oral and written.
Prerequisite: English 221.
Summer Quarter—Credit, 3(3-0).
238. **MILTON.** A detailed study of Milton's English poems with special attention given to Paradise Lost. Also a study of his important prose. Lectures, assigned reading, memory passages, and a report on a special topic.
Spring Quarter—Credit, 3(3-0).

241. EIGHTEENTH CENTURY LITERATURE. Readings in the poetry and prose of Neo-Classicism and the Enlightenment. Lectures. Reports.
Fall Quarter—Credit, 5(5-0).
242. THE ROMANTIC ERA. The principles and ideas of Romanticism as expressed in the works of the principal English writers of poetry and prose from 1798 to 1823. Term report.
Winter Quarter—Credit, 5(5-0).
243. THE VICTORIAN ERA. Readings in the works of the principal English writers of the Victorian Age. Term report.
Spring Quarter—Credit, 5(5-0).
244. ADVANCED COMPOSITION AND LITERATURE (Formerly English 241). Open to all upperclassmen and may be required of those Seniors who show a marked deficiency in English Composition. A review of Freshman English, but with some attention given to an appreciation of literature and of the principles of style proper.
Fall Quarter—Credit, 5(5-0).
245. STUDIES IN ENGLISH. Open only to Seniors majoring in English.
Any Quarter—Credit, 3(0-6).
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FOREIGN LANGUAGE

FRENCH

211. ELEMENTARY FRENCH. French Grammar, translation and composition for beginners and students who do not present credit for two years of high school French. Not open to students who present two units of high school French.
Fall Quarter—Credit, 5(5-0).
212. FRENCH GRAMMAR. A continuation of French 211. Not open to students who present two units of high school French.
Winter Quarter—Credit, 5(5-0).
213. READING AND COMPOSITION. Oral and written composition supplemented by reading from standard authors.
Spring Quarter—Credit, 5(5-0).

214. **ADVANCED FRENCH GRAMMAR.** Advanced French Grammar and translation. This course is open to students who have passed in courses 211 and 212 or who have successfully done two years of high school French.
Fall Quarter—Credit, 5(5-0).
215. **ADVANCED FRENCH.** Rapid reading of modern French literature.
Winter Quarter—Credit, 5(5-0).
216. **ADVANCED FRENCH.** French prose and poetry. Reading, lectures and explanation of texts. This course is offered to give the student a general view of French literature from the seventeenth century to the present day.
Spring Quarter—Credit, 5(5-0).
221. **ADVANCED FRENCH.** Conversational French. Practice in reading, writing and speaking French. Abstracts in French, both oral and written of works read outside of the class room. Introduction to systems of phonetics. Especially designed for those intending to teach the language.
Prerequisite: Three Quarters of College French.
Fall Quarter—Credit, 5(5-0).
222. **ADVANCED FRENCH.** A careful and complete review of the fundamental principles of French Grammar, with consideration of difficult points of syntax, discussion of text books and methods. Primarily for those intending to teach the language.
Prerequisite: Three Quarters of College French.
Winter Quarter—Credit, 5(5-0).
223. **ADVANCED FRENCH.** Continuation of French 222.
Spring Quarter—Credit, 5(5-0).
231. **FRENCH LITERATURE.** A rapid survey of French literature from the beginning to the eighteenth century. Reading, translation, lectures, discussions and reports.
Fall Quarter—Credit, 5(5-0).
232. **EIGHTEENTH CENTURY LITERATURE.** The economic, social and literary aspects of France in eighteenth century, with special reference to the words of Diderot, Montesquieu, Voltaire and Rousseau. Reading and translations.
Winter Quarter—Credit, 5(5-0).

233. CONTEMPORARY FRENCH CIVILIZATION. Discussions, readings and reports in French on present day social, economic and political conditions in France.
Spring Quarter—Credit, 5(5-0).
245. FRENCH SEMINAR. Open, with approval of instructor, to Seniors with a major in French.
Credit, 3(0-6).

GERMAN

211. GERMAN GRAMMAR. Careful drill upon pronunciation. The memorization and frequent repetition of easy colloquial sentences. Drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, or adjectives, pronouns, weak verbs and the more usual strong verbs; also upon the use of the more common prepositions, the simple uses of the model auxiliaries, and the elementary rules of syntax and word-order.
Fall Quarter—Credit, 5(5-0).
212. INTERMEDIATE GERMAN. Abundant easy exercises designed not only to fix in the mind the form and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression.
Winter Quarter—Credit, 5(5-0).
213. ADVANCED GERMAN. The reading of graduated texts from a reader, with constant practice in translating into German easy variation upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.
Spring Quarter—Credit, 5(5-0).
221. GERMAN CLASSICS. Reading of modern prose, modern comedy, scientific selections, composition, grammar. Oral exercises. Open to students who have had two years of high school German, or one year of College German.
Fall Quarter—Credit, 5(5-0).
222. ADVANCED GERMAN. Reading from the more difficult standard modern authors.
Winter Quarter—Credit, 5(5-0).

223. **ADVANCED GERMAN.** A continuation of German 222. Spring Quarter—Credit, 5(5-0).
231. **GERMAN LITERATURE.** A survey of the German authors including: Storm, Heyse, Keller, Schiller, Goethe, Heine, and Wagner. A masterpiece taken from one of the above will be read in class room.
Prerequisite: German 223.
Fall Quarter—Credit, 5(5-0).
232. **THE GERMAN NOVEL.** Lectures on the characteristics of the German Novellen. *Romeo Und Julia Auf Dem Dorfe* will be read in class.
Winter Quarter—Credit, 5(5-0).
233. **MODERN AUTHORS.** Rapid reading of stories and dramas written toward the end of the nineteenth century.
Spring Quarter—Credit, 5(5-0).
245. **SEMINAR.** German. Open only to Seniors majoring in German.
Credit, 3(0-6).

SPANISH

211. **ELEMENTARY SPANISH.** The Spanish Grammar. Drill in the use of forms, word order, and idioms. A thorough foundation will be emphasized. Students who fail to master the rudiments will not be permitted to take Spanish 212.
212. A continuation of 211 with special emphasis placed on the use of idioms.
213. **ADVANCED SPANISH.** Special use of the subjunctive, and preparation of the student for the spoken language.
221. **ORAL SPANISH.** An attempt will be made to drill students in the idioms of the spoken language.
222. **COMMERCIAL SPANISH.** Specially designed for students taking business administration.
Prerequisite: Spanish 213.
223. **SPANISH PROSE COMPOSITION.** Advanced work dealing with the use of every day idioms used in the Spanish *diarios*.

231. DON QUIXOTE. Readings in Cervante's satire on knight-hood. Only Spanish will be spoken in class.
232. CONTEMPORARY SPANISH LITERATURE. A survey of the Latin-American authors taking cognizance of the following: Ruben Dario, Gutierrez Najera, Salvador Diaz Miron, Juan del Casal, and Jose Asuncion Silva. Only Spanish will be spoken.
233. SEMINAR. Research.

HISTORY

211. MODERN EUROPEAN HISTORY. This course is a survey of the principal factors in the history of Western Europe. Economic, social, political, religious and intellectual movements are studied in reference to their relations to the development of national states and the growth of democracy and the expansion of Europe. Emphasis is laid on international relationship and on events culminating in the Great War. Lectures, collateral readings, special reports and map work.
212. This course is a continuation of History 211, and is concerned for the most part with problems growing out of the World War.
Winter or Spring Quarter—Credit, 5(5-0).
213. HISTORY OF THE NEGRO. This course opens with a brief survey of the African background of the Negro and traces him from Africa to America. It includes a study of his enslavement, with special emphasis on slavery in America, his life on the plantation, the Free Negro before 1860, abolition, and the Civil War with special emphasis on the part played by Negro troops, achievements since 1865, forces in Negro progress, some problems of the Negro, the part played by him in the World War. Special phases of the Negro are studied together with the forces that are operating to unite the race. Woodson, *The Negro in Our History*, is used as the basis of the course and is supplemented by lectures, collateral readings, examination of sources, preparation of bibliographies, the presentation of papers.
Winter or Spring Quarter—Credit, 5(5-0).

214. **ENGLISH HISTORY.** A study of the intellectual, religious, social and industrial life of England. Emphasis is laid on the Renaissance, the Reformation and the Ages of Elizabeth, the Tudors and the Stuarts.

Winter Quarter—Credit, 5(5-0). Not offered 1931-32.

221. **COLONIAL HISTORY.** This course deals with European background, the institutional and economic development of the British colonies in North America; the rise of the dispute with Great Britain. The course and phases of the Revolution.

Fall Quarter—Credit, 5(5-0).

222. **U. S. HISTORY.** A continuation of 221. The movement toward union; the formulation of a new nation and its development up to 1865. Among the subjects considered are constitutional theories, sectional controversies, the secession of the Civil War and constitutional and economic problems of the Union and Confederacy.

Winter Quarter—Credit, 5(5-0).

223. **U. S. HISTORY SINCE CIVIL WAR.** Recent and contemporary American History with emphasis on the rise of big business and its effect on politics, government, reconstruction, transportation; labor problems and world politics; course of party development and political reform; the World War and post war problems.

Spring Quarter—Credit, 5(5-0).

231. **ANCIENT HISTORY.** This course is designed for those majoring in the field or who plan to teach Ancient History in secondary schools. It includes a study of the civilizations and contributions of the people along the Nile and of Greece and Rome.

Fall Quarter—Credit, 5(5-0).

232. **MEDIAEVAL HISTORY.** A history of the middle ages with particular attention to social and economic conditions and cultural and religious development.

Winter Quarter—Credit, 5(5-0).

233. **HISTORY OF LATIN AMERICA.** A study of the rise and development of the Latin American nations, with special attention to their relations with each other and with the outside world.

Spring Quarter—Credit, 5(5-0).

245. SEMINAR. Open, with approval of instructor, only to Seniors majoring in the department.
Any Quarter—Credit, 3(0-6).
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GEOGRAPHY

241. COMMERCIAL AND INDUSTRIAL GEOGRAPHY. This course deals with the value and importance of physical environment of man and its influence upon commerce and industry.
Fall Quarter—Credit, 4(4-0).
242. COMMERCIAL AND INDUSTRIAL GEOGRAPHY. A continuation of course 241. A study is made of the industrial and commercial contributions of the various nations of the world to progress. Special topics are assigned.
Winter Quarter—Credit, 5(5-0).
243. PRINCIPLES OF GEOGRAPHY. The geological features of North America, including topography, drainage, geology, soils and climate. This is followed by an analysis of physiography with special reference to the physiographic provinces of the United States.
Fall Quarter—Credit, 5(5-0).
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GEOLOGY

131. GENERAL GEOLOGY. A general discussion of geologic forces and their results, dealing chiefly with the principal facts of the science, with reference to the agencies affecting changes in the earth's form. The course includes a study of composition of the earth, soil forming minerals and characteristics. Rocks and their identification, weathering, residual soil formed from various rocks. The work of winds, ground water stream and their work, alluvial deposits. Glaciation and glacial soils, oceans, lakes and inland waters, together with interpretation of geologic and soils maps.
Fall or Winter Quarter—Credit, 5(4-2).
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HOME ECONOMICS

APPLIED ART

211. APPLIED ART. This course includes the principles which control the use of color and form and the selection and

management of elements in the production of objects themselves and in their use as parts of whole.

Fall Quarter—Credit, 3(0-6).

212. **COSTUME DESIGN.** This course is a design basis for garment selection and construction. Includes color, line, form and texture in modern dress; consideration of individual requirements; brief survey of historic costume.

Winter Quarter—Credit, 3(0-6).

213. **HOUSE FURNISHINGS.** A decorative phase of design studied in the solving of problems which occur in the furnishings of the house.

Prerequisite: Art 211.

Spring Quarter—Credit, 2(2-2).

231. **APPLIED ART II.** A further study of harmonies, adaptation of natural motifs, and design as applied to fabrics and other materials; art masterpieces and articles of common use studied according to principles of color and form.

Prerequisite: Art 211.

Fall Quarter—Credit, 3(0-6).

232. **COSTUME DESIGN II.** Review of line, form and proportion in modern costume and in the human figure as the structure upon which costume is built; special problems in dress design; stress in color in modern and historic costume for the stage.

Prerequisite: Art 212.

Winter Quarter—Credit, 3(0-6).

242. **INTERIOR DECORATION.** A study of color, form and arrangement of house furnishings.

Prerequisite: Art 231.

Winter Quarter—Credit, 3(0-6).

CLOTHING

211. **CLOTHING I.** Adaptation and use of commercial patterns; kind, qualities, and quantities of materials; elementary facts which underlie the successful selection of textile fabrics; planning and construction of simple garments.

Fall Quarter—Credit, 3(0-6).

212. **CLOTHING II.** The planning of clothing budgets of individuals and of family groups; planning and construction of garments for children, men and women with em-

phasis on rapidity of construction, labor-saving methods, and relative costs.

Prerequisite: Clothing 211 and Art 212.

Winter Quarter—Credit, 3(0-6).

223. **TEXTILES.** A study of the chemical, physical, microscopic tests on textile fibers, yarns and fabrics. The combination of art, science, and mechanic that makes possible to develop a clear and sound judgment in the selection of textile fabrics for household and personal use and become familiar with best methods of determining quality.

Prerequisite: Clothing 212.

Spring Quarter:—Credit, 3(2-2).

232. **CLOTHING III.** Aesthetic and modish adaptation of materials to the individual; self-expression through dress; self-fitting and problems in silk fabrics, renovation and practice in demonstration work.

Prerequisites: Clothing 211, 212 and 223. Art 212.

Winter Quarter—Credit, 3(0-6).

243. **CLOTHING IV.** Fundamentals in tailoring and essentials in millinery.

Prerequisites: Clothing 211, 212, 223 and 232. Art 212, 232.

Spring Quarter—Credit, 3(0-6).

FOODS

221. **FOODS I.** Practical cookery, illustrating the various methods of preparing foods; study of stores, fuels, food preservation, and simple meal planning.

Fall Quarter—Credit, 5(2-6).

223. **FOODS II.** Food preparation is from an experimental standpoint; foods are tested to show chemical compositions, solubility in various re-agents and similar qualities. Food values in relation to cost; place of various foods in diet.

Prerequisites: Foods 221 and Organic Chemistry.

Spring Quarter—Credits, 5(2-6).

231. **HUMAN NUTRITION.** The chemistry of food and nutrition, with emphasis upon the food nutrients, digestion, and metabolism.

Prerequisite: Foods 223, Organic Chemistry and Embriology and Physiology.

Fall Quarter—Credits, 5(5-0).

241. **DIETETICS.** Planning of typical dietaries for each period of life. Studies of weight, measures and cost of some of the common food materials; calculation and preparation of standard portions and combinations of foods.
Prerequisites: Foods 223 and 231.
Fall Quarter—Credits, 5(2-6).
242. **DINNER WORK.** Practice work in marketing and serving, and other practical applications of classroom theories.
Prerequisites: Foods 223, 231 and 241.
Winter Quarter—Credit, 3(0-6).

HOUSEHOLD ECONOMICS

211. **HOME ECONOMICS PROBLEMS.** Survey course of the field of home economics. Special problems are assigned.
Fall Quarter—Credit, 1(1-0).
212. **HYGIENE AND HOME NURSING.** Practical application of the principles of maintaining and improving health; home care of sick.
Winter Quarter—Credit, 3(2-2).
223. **HOUSEHOLD MANAGEMENT.** Organization and simplification of house-work through efficiency in house planning and construction, and in the methods of housekeeping; standards of living and family expenditures, budgets and accounts.
Prerequisites: Household Physics, Foods 223 and Clothing 212.
Spring Quarter—Credit, 3(2-2).
233. **ECONOMICS OF THE HOUSEHOLD.** This course includes problems of income, housing, standards of living, budgets and accounts.
Prerequisites: Economics and Foods 223.
Spring Quarter—Credit, 3(3-0).
241. **SUPERVISED HOUSEHOLD MANAGEMENT.** Practice course in household management in practice house.
Prerequisite: Household management.
Fall Quarter—Credit, 3(2-?).
242. **CHILD WELFARE.** The study of the development, care and training of the infant and preschool child.
Prerequisites: Embryology and Physiology, Psychology and Foods 231.
Winter Quarter—Credit, 3(2-?).

243. **THE MODERN FAMILY.** Study of the family and the various problems which confront it today.

Prerequisite: Senior standing.

Spring Quarter—Credit, 3(3-0).

HORTICULTURE

111. **VEGETABLE GROWING.** A study of the general principles involved in vegetable production. The student will be given an opportunity to carry out some of the principles taught through practical work in assigned plots of which they will have full charge. They will be expected to plan, plant and cultivate their plot.

Spring Quarter—Credit, 4(2-4).

121. **HOME GROWN FRUITS.** The course was designed for the purpose of interesting the student in the production of fruit for home consumption. Consideration is given to the general principles of fruit growing, as locations, sites, soils, fruits and varieties, pruning and spraying, and the practices involved in orchard management, with some consideration to small fruits.

Winter Quarter—Credit, 3(2-2).

122. **FARM BEAUTIFICATION.** A general study of the principles of the art of beautifying the farm grounds. Designing and planning lawns; the planting, care and the maintenance of plants for the farm grounds.

Spring Quarter—Credit, 4(2-4).

131. **FLORICULTURAL PRACTICE.** Practical work in the greenhouse and flower garden. The student will plant and grow seed under greenhouse conditions with the consideration of diseases and insects.

Any Quarter—Credit, 3(1-4).

141. **FLORAL ARRANGEMENT AND JUDGING.** A general study of the principles and methods of cut flower arrangement and designing; interior decorations.

142. **COMMERCIAL FRUIT PRODUCTION.** Special emphasis is placed on the scope and importance of fruit in the United States and in North Carolina, also on the possibilities of fruit growing on a commercial scale and as a department of the general farm. The study includes the geography of fruit, production, handling and factors.

143. **PLANT MATERIALS.** The course includes the identification of trees, shrubs, and vines of North Carolina in summer and winter conditions. The laboratory work on identification will be done largely in the field. Some reference given to their use in landscaping.
Prerequisites: Botany 111 and 121.
Spring Quarter—Credit, 3(2-2).
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INDUSTRIAL ARTS

- 311, 312, 313. **ELEMENTARY WOODWORKING.** Care and use of tools; principles of planing, squaring and laying out work.
Fall, Winter, Spring Quarters—Credit, 3(0-6) each.
324. **MATERIALS OF CONSTRUCTION IN INDUSTRIAL ARTS.** This course takes up a detailed study of the characteristics of wood and other materials used in industrial arts shops.
Spring Quarter—Credit, 3(3-0).
- 325, 326, 327. **ADVANCED WOODWORKING.** Care and use of power machinery; joinery and cabinet making.
Fall, Winter, Spring Quarters—Credit, 3(0-6) each.
- 331, 332, 333. **VOCATIONAL DRAWING.** Correlation between mechanical drawing and shop projects. Selection and detailed laying out of projects.
Fall, Winter, Spring Quarters—Credit, 3(0-6) each.
- 338, 339, 340. **UPHOLSTERING, WOOD TURNING, FINISHING.** Application of the principles of upholstering, wood turning and wood finishing through simple projects.
Fall, Winter, Spring Quarters—Credit, 3(0-6) each.
341. **HISTORY OF INDUSTRIAL EDUCATION.** Traces the development of the manual and industrial arts up to 1870.
Fall Quarter—Credit, 3(3-0).
342. **HISTORY OF INDUSTRIAL EDUCATION.** Continuation of 341. Traces the development of the manual and industrial arts from 1879 to the present time.
Winter Quarter—Credit, 3(3-0).

- 348, 349, 350. ELECTRICITY, MACHINE SHOP PRACTICE, AUTOMOBILE MECHANICS. These courses will include practical work adapted to general shop work in junior and senior high schools.

Fall, Winter, Spring Quarters—Credit, 3(0-6) each.

MATHEMATICS

311. COLLEGE ALGEBRA. The course begins with operation upon surds and continues with theory of exponents, irrational and imaginary numbers, quadratic equations, equations solved like quadratics, simultaneous equations, etc. A general review of Algebra with advanced conceptions.

Prerequisite: High School Algebra.

Fall Quarter—Credit, 5(5-0).

312. TRIGONOMETRY. Functions of angles and their practical application to solution of problems, relation of acute angles and sides in right triangle, relation of functions, logarithms of numbers and trigonometric functions, solutions of the right and oblique triangles by logarithms.

Prerequisite: Math. 311.

Winter Quarter—Credit, 5(5-0).

313. ANALYTICAL GEOMETRY. Analytical Geometry.

Prerequisite: Math. 312.

Spring Quarter—Credit, 5(5-0).

314. DESCRIPTIVE GEOMETRY. Short lectures and individual class room instruction. Class room exercises are issued in form of problem sheets which the student finishes according to directions. Emphasis is placed upon the ability to visualize the problems and processes of solution. 314 includes the study of the fundamental conceptions of orthographic projection and fundamental problems on lines, planes and solids.

Fall Quarter—Credit, 3(1-4).

321. DIFFERENTIAL CALCULUS. The course consists of differentiating slopes of curves, applications to simple problems, method of differentiating trigonometric functions, logarithmic and exponential functions.

Prerequisite: Math 311, 312, 313.

Fall Quarter—Credit, 5(5-0).

322. INTEGRAL CALCULUS. Integration of functions of one variable, including use of tables; definite integrals; geometrical applications to areas and lengths of plane curves, volumes of solids, mechanical application to work, pressure, centers of gravity and moments of inertia.

Prerequisite: Math. 321.

Winter Quarter—Credit, 5(5-0).

323. INTEGRAL CALCULUS. A continuation of 322. Double and triple integration with application to areas, volumes, moments of inertia and centers of gravity, simple differential equations.

Prerequisite: Math. 322.

Spring Quarter—Credit, 5(5-0).

324. SURVEYING. The method of using the compass, transit, tape and level in making plane surveys. Lectures and field work. Elementary stadia work. In the drafting room the computations and drawing necessary to interpret and plot surveying field notes are made.

Prerequisites: Math. 311, 312.

Fall Quarter—Credit, 5(1-8).

331. DIFFERENTIAL EQUATIONS. First and second order equations, simultaneous equations and linear equations with constant coefficient; applications to geometry, chemistry, physics and mechanics.

Prerequisite: Math. 323.

Fall Quarter—Credit, 5(5-0).

- 332 and 333. ADVANCED CALCULUS. Fundamental principles, power series, partial differentiation, implicit and explicit functions, line, surface and space integrals, vectors, ordinary differential equations, calculus of variation and other selected topics.

Prerequisite: Mathematics 323.

Winter and Spring Quarters—Credit, 5(5-0) each.

334. VECTOR ANALYSIS. Vector and scalar products, differentiation and differential operators, processes of vector analysis, application to problems of physics, mechanics and geometry.

Prerequisite: Mathematics 323.

Fall Quarter—Credit, 5(5-0).

335. **FOURIER'S SERIES.** Fourier's integrals, zonal and spherical harmonics, La Place's equations, Lagender's coefficients. Flow of heat in one dimension, flow of heat in more than one dimension.

Prerequisite: Mathematics 332.

Winter Quarter—Credit, 5(5-0).

MECHANICAL ENGINEERING

311. **MECHANICAL DRAWING.** Instruction in proper use of drafting instruments and materials. Pencil drawings. Ink drawings. Tracing. Lettering. Emphasis placed upon accuracy.

Winter Quarter—Credit, 4(0-8).

312. **MECHANICAL DRAWING.** Continuation of 311. Elementary fundamentals required for machine drawing, including isometric, oblique and simple projections, the construction of conics and rolled curves.

Prerequisite: 311.

Spring Quarter—Credit, 4(0-8).

321. **MECHANISM.** A study of motion and types of various mechanisms employed in design of machines. Rolling cylinders, cones, belting, screws, cams, and wheel trains are covered in the course.

Winter Quarter—Credit, 5(5-0).

322. **MECHANISM.** A continuation of mechanism 321. The design of gear teeth. Linkages. Theory and practice of designing valve gears for steam engines.

Prerequisite: 313.

Spring Quarter—Credit, 5(5-0).

323. **MACHINE DRAWING.** Drafting room exercises accompanied by lectures. Making assembly drawing from blueprints of details of some machine. Process of reproducing drawings; blueprinting.

Prerequisite: 313.

Fall Quarter—Credit, 3(0-6).

324. **MECHANICAL ENGINEERING DRAWING.** This course is supplementary to the courses in mechanism, being drafting room work in the solution of practical problems such

as belting, design of cams, and velocities and acceleration of moving parts.

Winter Quarter—Credit, 3(0-6).

325. MECHANICAL ENGINEERING DRAWING. A continuation of 324. The solution of problems dealing with velocities, accelerations, forces in various linkages, design of gear teeth and a drawing board study of operation of certain types of valve gears for steam engines.

Prerequisite: 324.

Spring Quarter—Credit, 3(0-6).

326. FORGE SHOP. Instruction in use of tools. Study of material worked upon and proper method of working each material. Lecture and discussion of methods of making large forgings. Building and care of fires, heating, drawing, forming, bending and twisting, upsetting while bending, square corners, punching, bolt making, welding, chain making, construction of rings and hooks. Tool making and tempering.

Fall Quarter—Credit, 3(0-6).

327. FORGE SHOP. A continuation of M. E. 326. The work outlined under 326 is distributed over the two courses 326 and 327.

Prerequisite: The work covered under 326.

Winter Quarter—Credit, 3(0-6).

328. DIRECT CURRENT ELECTRICITY. Recitations and problems on electrical resistance. Ohm's Law and the electric circuit, Kirchhoff's Law, battery electromotive forces, primary and secondary batteries, magnetism and magnets, magnetic circuit, electrostatics, capacitance. Text: Dawes, Elec. Eng. D.C. Vol. I.

Prerequisite: 322

Spring Quarter—Credit, 5(5-0).

331. APPLIED MECHANICS. Graphical and analytical resolution and composition of forces. Laws of equilibrium and force systems; stress in various types of frames; distributed forces; center of gravity; moments of inertia and radii of gyration of plane areas and solids. Kinetics of solid bodies in plane motion.

Fall Quarter—Credit, 5(5-0).

332. **STRENGTH OF MATERIALS.** Physical properties of materials; fundamentals of components of stress and strain in bodies under uniform or varying stresses; the theory of bending; shearing; bending moments; equation of elastic curve; deflections in beams; stress due to combined axial loading and bending.
Prerequisite: 331.
Winter Quarter—Credit, 5(5-0).
333. **STRENGTH OF MATERIALS.** A continuation of 332. Theory of column strength; torsion; stresses and deformation in shafting and bars under torsion. Graphical method of solution of problems in statics.
Prerequisite: 332.
334. **THERMODYNAMICS.** Laws of thermodynamics and applications to engineering; physical properties of gases, saturated and superheated steam and air; use of equations, steam tables and diagrams in solution of various problems.
Fall Quarter—Credit, 5(5-0).
335. **THERMODYNAMICS.** A continuation of 334. Flow of fluids; throttling calorimeter; steam injector and turbines; theoretical and practical cycles of hot air; internal and external combustion engines with losses affecting efficiencies of various machines.
Prerequisite: 334.
Winter Quarter—Credit, 5(5-0).
336. **THERMODYNAMICS.** A continuation of 335. Study of gas motors and compressors; transmission of gases through pipe lines; insulation; heating and ventilating problems; cooling towers.
Prerequisite: 335.
Spring Quarter—Credit, 5(5-0).
337. **HYDRAULICS.** Theoretical Hydraulics. Elementary principles of Hydrostatics and Hydrokinetics; laws of static and dynamic pressure; flow of water through orifices, tubes, nozzles, weirs, pipe-lines and open channels; hydraulic friction and accompanying losses; water measurements in pipes and open channels.
Spring Quarter—Credit, 3(3-0).

338. MATERIALS OF ENGINEERING. Properties, structure and heat treatment of iron, alloys, steel and bearing metals. Lecture. Recitation.
Winter Quarter—Credit, 2(2-0).
339. MATERIALS OF ENGINEERING. Study of manufacture, physical properties and testing of iron, steel, timber, cement, concrete, brick, plaster and other materials. A.S. T.M. method of testing and specifications.
Prerequisite: 338.
Spring Quarter—Credit, 2(2-0).
3310. MECHANISM OF MACHINES. A study of the mechanism of machine tools; supplementary to the courses in pure mechanism; solution of many problems involving gearing and speeds of various machine tools in common practice.
Prerequisite: 321, 322.
Fall Quarter—Credit, 5(5-0).
3311. MACHINE DRAWING. Advance working machine drawing. Making detail sketches and drawings of machine parts.
Prerequisite: 325.
Fall Quarter—Credit, 3(0-6).
3312. MACHINE DESIGN. Problems in machine design, the solution of which is based upon statics. Calculation for design of some simple machine such as a punch, shear, or press; machines in which stresses are statically determinant.
Prerequisite: 332.
Fall Quarter—Credit, 5(5-0).
3314. MACHINE TOOL WORK. This course and the following course, 3315, are devoted to instruction and practice in the use of machine tools. Instruction, demonstration and application of the mechanism of the machine tools. Cutting tools, cutting angles and general adjustments are demonstrated and discussed. The work includes exercises in centering, squaring, straight and taper turning and fitting, outside and inside screw cutting, chucking, reaming, finishing and polishing, drilling, tapping, pipe threading on pipe threading machine, mandrel making, grinding and lapping, boring, brass turning, and finishing; work on milling machine, gear cutting, tool making including milling cutter and tap.
Fall Quarter—Credit, 3(0-6).

3315. MACHINE TOOL WORK. Continuation of the work described above and not performed in course 3314.
Winter Term—Credit, 3(0-6).
3316. TECHNICAL ELECTRICAL MEASUREMENTS. Calibration of ammeters, voltmeters, D.C. watthourmeter, resistance measurements, low resistance measurements, potentiometer, fault locating and electrolytic conduction.
Prerequisite: Phys. 323. Taken simultaneously with 3321.
Fall Term—Credit, 3(1-4).
3317. DYNAMO ELECTRIC MACHINERY. Measurement of armature and field resistance, voltage, power and transmission losses; electrical characteristics of stunt series, compound generators and motors; stray power tests, brake tests, efficiency and static torque tests.
Prerequisite: 3316.
Winter Quarter—Credit, 3(1-4).
3318. TECHNICAL ELECTRICAL A. C. MEASUREMENTS. Alternating current, resistance, inductance, reactance, capacitance, impedance, three-phase measurements, A.C. watt-hourmeter.
Prerequisite: 3317.
Spring Quarter—Credit, 3(1-4).
3319. A. C. DYNAMO ELECTRIC MACHINERY. Characteristics of synchronous motors and generators, single and poly-phase; transformer operation and characteristics; induction motor, synchronous converter, motor-generator sets.
Prerequisite: 3318.
Fall Quarter—Credit, 3(1-4).
3320. STORAGE BATTERIES AND ELECTRO-DEPOSITION. Manufacture, operation and care of storage batteries; elements of electro-deposition of copper and nickel.
Prerequisite: 3322 and 3316.
Spring Quarter—Credit, 6(3-4).
3321. D. C. MACHINERY. Recitation and problem section; detail study of the generator, generator characteristics, motor characteristics, electrical losses and efficiency, transmission and distribution of power.
Prerequisite: 328. Text: Same as 328.
Fall Quarter—Credit, 5(5-0).

3322 and 3323. A. C. ELECTRICITY. Recitation and problem section; alternating current and voltages, sinusoidal waves, vector addition, alternating current circuit, alternating current instruments and measurements, single and poly-phase systems.

Prerequisite: 3321. Text: Dawes Electrical Engineering, A.C. Vol. II.

Winter Quarter—Credit, 5(5-0).

Spring Quarter—Credit, 5(5-0).

341. STRENGTH OF MATERIALS. Theory of elasticity applied to plane stress and strain; determining stress and strain in shafting and bars under combined bending and torsion; springs, cylinders, flat plates; reinforced concrete beams, columns and slabs.

Prerequisite: 333.

Fall Quarter—Credit, 5(5-0).

342. SURVEY OF ENGINEERING. Lectures on achievements in the engineering world. A study of the fundamentals of research methods in relation to the actual procedure of discovering and solving research problems. Conference and report.

Winter Quarter—Credits, 2(1-2).

343. HEAT ENGINEERING. Reversed thermodynamic processes; refrigeration; systems of refrigeration for various refrigerants; particular attention to domestic and industrial refrigeration.

Prerequisites: 334, 335, 336.

Fall Quarter—Credit, 3(3-0).

345. HYDRAULIC TURBINES. Study of construction and characteristics of the modern types of Hydraulic Turbines. Data necessary for turbine test and problems on use of data constructing characteristic curves. Lectures and demonstration by problems of stream flow. General lectures on Hydro-Electrical Engineering. Moving pictures of construction and operation of one or two outstanding hydro-electrical plants in United States or Canada.

Prerequisite: 337.

Spring Quarter—Credit, 5(5-0).

346. MACHINE DESIGN. Design of a power-driven punch press and shear. Stiffness and strength of power shafting, belts, ropes, stresses in fly-wheels, force fits, balancing,

journals and bearings and stresses in moving parts. Complete set of drawings and calculations for punch and shear machine.

Prerequisite: 3313.

Winter Quarter—Credit, 5(2-6).

347. MACHINE DESIGN. A continuation of 346 with more advance work in machine design.

Spring Quarter—Credit, 5(2-6).

348. STEAM POWER PLANT ENGINEERING. A descriptive and analytical study of steam generating and steam using machinery. Detail description of modern central and isolated stations. Cost of power. Typical specifications.

Spring Quarter—Credit, 5(5-0).

349. TESTING MATERIALS LABORATORY. Tests on sands and cements according to A.S.T.M. standards. Strength of various mixes of concrete.

Prerequisite: Strength of Materials.

Winter Quarter—Credit, 2(1-3).

3410. REPORT WRITING. The principles and methods of investigation and report-writing on technical problems.

Fall Quarter—Credit, 4(3-2).

3411. CONTRACTS AND SPECIFICATIONS. Writing specifications for construction work; method of writing. Study of various contract documents. Method of letting contracts.

Winter Quarter—Credit, 5(5-0).

3412. HEATING, VENTILATING AND PLUMBING. Lecture, recitation. A brief study of the principles of heating, ventilation and plumbing with practical problems.

Fall Quarter—Credit, 5(5-0).

3413. A. C. MACHINERY. Alternator windings, construction, electromotive force, outputs, regulation, and operating characteristics. The transformer principles, calculation and operation, instrument transformer, induction motor, synchronous motor, and synchronous converter, motor-generator sets.

Prerequisite: 3323. Text: Same as 3323.

Fall Quarter—Credit, 5(5-0).

3414. CENTRAL STATIONS. Distribution system, nomenclature, losses and loss factors, loads and load factors, load graphs, circuit design, transmission, automatic regulators, switch-boards and switch-gear, operating characteristics of generating stations, hydro-electric stations, and plant visits.

Prerequisite: 3413.

Winter Quarter—Credit, 5(5-0).

3415. ELECTRICAL ENGINEERING LABORATORY (Special for Department 2). Potentiometer measurements, calibration of meters, D.C. watt-hourmeter, resistance measurements; characteristics of series, shunt, and compound motors and generators; characteristics of synchronous motor and alternator; characteristics of synchronous motor-generator sets and transformer.

Prerequisite: 322.

Spring Quarter—Credit, 3(1-4).

3416, 3417. ELEMENTS OF ELECTRICAL ENGINEERING. Ohm's Law for series and parallel circuits, potential drops and rises, inductance, capacitance, D.C. motors and generator, Ohm's Law for A.C., impedance, reactance, inductance, capacitance; synchronous converter, motor and alternator; three-phase transmission and transformer.

Fall Quarter—Credit, 5(5-0).

Winter Quarter—Credit, 5(5-0).

METEOROLOGY

121. ELEMENTARY METEOROLOGY. This course acquaints the student with the principles of the general and secondary circulation of the atmosphere; the elements of weather and climate; practical weather forecasting from weather maps and local observations.

MILITARY SCIENCE

1. In October, 1919, the United States War Department designated military training at the A. and T. College under the provision of Special Regulation No. 45, War Department, 1920.

2. All male students who are physically fit and sixteen years of age or over, automatically become members of the Military Department upon entering school.

BENEFIT AND VALUE OF MILITARY TRAINING

(a) In the Military Department a man will be taught the lesson of discipline, which means that he will learn to lead and to be led, to obey and to give orders, to co-operate effectively with others—team work. These are lessons which are worth learning, whether one goes to war or goes to work.

(b) Military training will enrich the educational resources of the college by contributing new problems, applications, and equipment. This will not only vitalize the course of study, but give the student a training which will be valuable in his industrial or professional career as it would be should the nation call upon him to act as a leader in its defensive forces.

(c) A military unit is largely dependent for its efficiency upon the physical fitness of the individuals composing it. Physical training, therefore, will form an essential part of the military instruction. It will be the policy to encourage and support, in every way practicable, the physical training given by the civilian teachers, thus co-operating with all other effective agencies in an effort to promote a more vigorous American manhood.

(d) The Military Department aims to make every man physically sound and to teach him habits of self-care. No other form of physical training equals in soundness and efficiency that afforded by drill in the open and by mass athletics, both designed to develop the mind and body by certain well-defined movements. Drill and physical exercise, properly given, will fit the student to endure physical hardships, discipline him in accuracy, orderliness, punctuality and alertness, and will insure quickness, precision and the habit of concentrated attention. It will accustom the student to co-operation, and promote comradeship and emphasize the spirit of duty and service.

The regularity and thoroughness of these exercises contribute much to the health and growth of the student. Their physical improvement is always a cause of deep and abiding joy and pleasant surprise on the part of parents and friends.

COURSES OF INSTRUCTION

The training in these courses is progressive and follows the plans laid down by the War Department.

These courses are required of all students of the institution who are physically fit, with the exception of Juniors and Seniors of the College Department.

211. **MILITARY SCIENCE.** This course is intended as introduction to the idea of military service. It stresses such subjects as military courtesy and discipline, drill—close and extended order—and marches.

Fall Quarter—Credit, 1(0-2).

212. **MILITARY SCIENCE.** This course is devoted to the care and use of arms and equipment, personal hygiene, sanitation and physical training.

Winter Quarter—Credit, 1(0-2).

213. **MILITARY SCIENCE.** This course deals with the question of morale and also drills the cadets in such problems as interior guard duty, minor tactics, and ceremonies.

Spring Quarter—Credit, 1(0-2).

221. **MILITARY SCIENCE AND TACTICS.** This course begins with a consideration of such topics as military leadership and responsibility in peace and war. Attention is then directed to the military history of the United States and the development of its present military policy.

Fall Quarter—Credit, 1(1-2).

222. **MILITARY SCIENCE.** This course is devoted to a study of the plan of organization of the military forces of the United States at the present time. This will include administrative departments, territorial areas, and personnel.

Winter Quarter—Credit, 1(1-2).

223. **MILITARY SCIENCE.** This course undertakes a consideration of certain phases of the military establishment, as military law, hygiene, sanitation, communication and supplies. Each student will be encouraged to select a topic for research in the field in which he is most interested. A regular feature of the work will be a discussion of these topics for the benefit of the class.

Spring Quarter—Credit, 1(1-2).

MUSIC

211. APPRECIATION OF MUSIC. Lectures and private reading. Analytical study of the masterpieces with special reference to the listener. This course does not presuppose a technical knowledge of music.
Fall Quarter—Credit, 1(0-2).
212. MUSIC. Lectures and private study of the best known classics, and the ability to know masterpieces by hearing the theme and something of importance of the composer's life.
Winter Quarter—Credit, 1(0-2).
213. MUSIC. Lectures and study of the progress and rise of music, together with more detailed study of the art forms and their development. These forms are illustrated from time to time by selection from the works of composer under discussion, the principal aim being to furnish the student with a general knowledge of this art upon which to base further studies in the appreciation of music.
Spring Quarter—Credit, 1(0-2).
221. MUSIC. A more detailed study of the various phases in development of art music. Lectures, reading and reports together with musical illustrations.
Fall Quarter—Credit, 1(0-2).
222. MUSIC. A critical study of the lives and works of the composers who have exerted the greatest influence on music, with particular attention to the sources which have influenced their individual styles.
Winter Quarter—Credit, 1(0-2).
223. CHURCH MUSIC. History of the music of the Christian Church from the first century to the present time. Chants, masses, hymns, anthems, oratorios, cantatas, and organ music. The aim of the course is to acquaint the student with the best sacred music both ancient and modern.
Spring Quarter—Credit, 1(0-2).
231. MUSIC. Lectures and study pertaining to all forms of musical composition. Consideration of the orchestra as a unit, and demonstration of orchestral instruments.
Elective. Fall Quarter—Credit, 3(3-0).

232. MUSIC. Study of Negro and Indian music and trace its origin from primitive time to the present time. Lectures and collateral reading on the place of the Negro and the Indian in modern music.

Elective. Winter Quarter—Credit, 3(3-0).

233. MUSIC. The rise of music in America. Study of the seventeenth, eighteenth, nineteenth and twentieth centuries, the social, economical and political backgrounds and their importance on the development of music. Leading American composers, their lives and works.

Elective. Spring Quarter—Credit, 3(3-0).

234. PUBLIC SCHOOL MUSIC. Elementary Harmony prerequisite. This course is offered for those who wish to prepare themselves to supervise or teach music in secondary and normal schools. This course is required for all who major in music, but may be elected by any member of the college department. The study of the child's voice, elementary curriculum, methods, music notation, directing ensemble singing, observation, practice teaching, etc.

Any Quarter—Credit, 2.5(0-5) each.

PHILOSOPHY

223. ETHICS. An introduction to the chief theories of modern life. The object of this course is to arrive at a systematic evaluation of the valid factors in an ethical philosophy of life.

Spring Quarter—Credit, 3(3-0).

231. PHILOSOPHY. A study of the development of philosophic thought and tendencies, religious, scientific, esthetic and moral that have produced our civilization. Attention will be given to the most significant philosophers of our Western culture and to the views of the outstanding personalities.

Fall Quarter—Credit, 3(3-0).

232. ELEMENTARY LOGIC. A study of the methods employed in the search for facts, the formulation and testing of general principles to specified cases. Illustrations are drawn from the processes of common sense, science, history and law.

Winter Quarter—Credit, 3(3-0).

PHYSICAL EDUCATION

THE GENERAL AIMS OF PHYSICAL EDUCATION

The aims of this department are to develop organic power, vitality, the prerequisites to physical and mental efficiency; to secure muscular development, bodily skill and grace; to provide an incentive and an opportunity for every student to secure physical recreation as a balance to the sedentary demands of school life. The department also aims to offer social and moral values of games and sports, and also to establish high ideals of athletics. It trains the individual along the lines of leadership, fellowship and develops a love of recreation.

Further, it aims to acquaint the student and teacher with a keener realization of periodic health examinations; to give to the public trained recreational leaders.

Note: Regular college students (girls), are required to have two years of "gym" work. (This means that they must have a uniform.)

211, 212, 213. DEVELOPMENTAL GYMNASTICS (Required of Freshmen). This is a course in practice in general gymnastics. It includes hand apparatus, floor and hanging apparatus, games, tumbling, free exercises and rhythmic work, and mass games and military exercises.

Fall, Winter and Spring Quarters—Credit, 1(0-2) each.

215, 216. HYGIENE. This course consists of lectures and discussions as to what really constitutes health, and a survey of the personal habits which influence physical and mental health, sex, school and social hygiene.

Winter and Spring Quarters—Credit, 2(2-0) each.

221, 222, 223. DEVELOPMENTAL GYMNASTICS (Required of Sophomores). Advanced technique, classic, and athletic dances. Instruction in music and its relation to the dance, and a continuation of the first year's work with special emphasis on the practice of teaching and first aid training.

Fall, Winter and Spring Quarters—Credit, 1(0-2) each.

224. BALLET DANCING. The elements of dancing. The modified ballet technique, simple combinations, a few character, interpretative, classic dances are included.

Fall Quarter—Credit, 2(1-2).

- 225, 226. FOLK DANCING. This course takes up practice and theory. The theory deals with the national differences of dance and costume. The practice takes up the dances of the various countries. A notebook including the lectures and dances, with illustrations, is required.

Winter and Spring Quarters—Credit, 2(1-2) each.

233. HISTORY OF PHYSICAL EDUCATION. This course covers the gymnastics of the Greeks and Romans; the period of decline under asceticism; the revival of sports and exercises during the age of chivalry and the Renaissance; the growth of our leading modern systems of physical training in Europe and America.

Fall Quarter—Credit, 1(1-0).

235. PSYCHOLOGY OF PLAY AND PLAYGROUND WORK. Lecture course discussing the psychology of play, the aims of play, the purpose of the playground. A discussion of the equipment of a playground, organization, management, and the value of the playground as a social center, is taken up.

Winter Quarter—Credit, 2(2-0).

237. MASSAGE. This course consists of theory and practice. Lectures are given on the history of massage, its physiological effects, etc. The practice work trains the student in the methods of applying this treatment.

Fall Quarter—Credit, 2(1-2).

- 238, 239. METHODS. The lectures present the principal systems and methods of physical education in use in colleges, public and private schools, recreation centers, Y. W. C. A., etc. Extra-curricula work, such as May Days, health plays, poster demonstrations and after-school activities are fully discussed.

Winter and Spring Quarters—Credit, 2(1-2) each.

- 242, 243. PANTOMIME. This is a course in visualizing thought and feeling by attitude and action. Speaking without words. Practice is given in this course and instruction in acting, staging plays, coaching, etc. A pantomimic play is required of each student.

Winter and Spring Quarters—Credit, 1(1-0) each.

244. PAGEANTRY. This course includes the history of pageantry, writing, organization, coaching, and the stage

properties necessary for producing a pageant, both for indoor and outdoor use.

Spring Quarter—Credit, 1(1-0).

250. VOCAL EXPRESSION. There is an unusual demand made on the voice of the teacher of Physical Training. This course in Vocal Expression is designed primarily to give students control and correct use of the speaking voice.

Fall and Winter Quarters—Credit, 1(1-0) each.

- 262, 263. PRACTICE TEACHING. The students will do practice teaching in the public schools of Greensboro. Their work in the city will consist of two days a week in the public schools and practice teaching within their own classes. Lectures shall be given twice a week on the art of teaching.

Winter and Spring Quarters—Credit, 4(1-6).

271. CREATIVE DANCING. Interpretative study of music and bodily movement; simple clogs and character work. A dance folio is required of each student. Each will be required to write and teach a dance.

Fall Quarter—Credit, 3(1-4).

- 272, 273, 274. CORRECTIVE CLINIC, PRACTICE WORK. In this course the Seniors work on the Freshmen. All the methods in corrective and massage are brought into play.

Fall, Winter and Spring Quarters—Credit, 2(1-2).

PHYSICS

311. Lecture, recitation and laboratory. Physics 311, 312 313 make up a general course in physics which treats the fundamental principles of the entire subject and can be used as a basis for advanced study in physics. The courses are presented from mathematical, historical, and descriptive standpoints. Physics 311 deals with the properties of matter, the mechanics of liquids and gases, sound, and heat.

Text: *College Physics*, by Webster.

Fall Quarter—Credit, 5(4-2).

312. Lecture, recitation and laboratory. This course continues the study of heat and then considers the mechanics of solids (including statics as applied to particles and rigid bodies) and optics (including lenses, mirrors, reflec-

tion, refraction, and spherical and chromatic aberration).

Prerequisite: Physics 311 and Math. 312. Text: Same as 311.

Winter Quarter—Credit, 5(4-2).

313. Lectures, recitations and laboratory devoted to a further study of optics (speed of light, polarization, interference and elementary spectrometry) and to a general study of electricity.

Prerequisite: Physics 312. Text: Same as 311.

Spring Quarter—Credit, 5(4-2).

321. ELECTRICITY. Lectures, recitations and laboratory. Quantitative study of Ohm's Law, Joule's Law for heating effect. The laboratory work will also include the study of direct current meters and motors.

Prerequisite: 313, simultaneous with Math. 321. Text: Same as 313.

Fall Quarter—Credit, 5(4-2).

322. ELECTRICITY. (Continued). Lectures, recitations and laboratory covering electro-magnetic induction, magnetic circuit, simple sinusoidal currents, simple alternating currents and phenomena.

Prerequisite: 321. Text: Same as 321.

Winter Quarter—Credit, 5(4-2).

323. A continuation of 313, including motion of projectiles, friction, work, energy, power, angular acceleration and moment of inertia, dynamics of rotation, elasticity and gravitation.

Prerequisite: 312. Text: Same as 312.

Spring Quarter—Credit, 5(4-2).

331. CONTEMPORARY PHYSICS. Lectures and colloquia on contemporary physics and atomistic theory. Discussion of the Langmuir atom, the Bohr atom, and stationary states.

Prerequisites: 323 and Math. 322. Text: Selected bibliography.

Fall Quarter—Credit, 5(5-0).

332. MODERN PHYSICS. Informal lectures and discussions with demonstrations treating radio-activity, X-rays, the vacuum tube, electron theory, discussion of recent development in physics.
Prerequisite: 313.
Winter Quarter—Credit, 4(4-0).
333. HEAT. Work covering the fundamental principles of heat phenomena. Expansion, specific heats and temperature, changes of state and van der Waal's equation, classical theory of heat, elementary kinetic theory, absolute scale of temperature, pyrometry.
Prerequisite: 332.
Spring Quarter—Credit, 4(4-0).
341. ACOUSTICS AND LIGHTING. Lecture, recitation. A study of sound wave interference and insulation, especially in auditoriums. The principles of lighting and effects. Exercises.
Prerequisites: 313 and M. E. 3412.
Spring Quarter—Credit, 3(3-0).
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POLITICAL SCIENCE

231. FEDERAL GOVERNMENT. A general introductory course in the government of the United States to acquaint the student with the more important facts of the organization and working of Federal institutions and to give a foundation for more advanced work in government. The principles of political science; the state, the nation, the government; constitution, legislatures, executives, cabinets, and courts.
Fall Quarter—Credit, 5(5-0).
232. STATE AND LOCAL GOVERNMENTS. A study of state constitutions and of the structure and functions of state and local institutions in the United States.
Winter Quarter—Credit, 5(5-0).
233. GOVERNMENTS OF EUROPE. This course will be devoted to a consideration of the fundamental principles and functions of the leading European governments.
Spring Quarter—Credit, 5(5-0).

234. AMERICAN POLITICAL PARTIES. A study of the development of political parties, the caucus, political convention, primaries and other forms of nomination.
Winter or Summer Quarter—Credit, 3(3-0).
235. MUNICIPAL ADMINISTRATION. A study of the activities of modern municipalities, methods employed, policies and problems in the fields of finance; health and sanitation; police and fire protection; education; city planning; housing, public utilities, charities and corrections and recreations.
Spring Quarter—Credit, 3(3-0).
241. INTRODUCTION TO THE STUDY OF INTERNATIONAL RELATIONS. A course devised to give a complete study of international law. The principles of international law are set forth and illustrated by collateral reading and current events.
Pitman Potter's *Introduction to the Study of International Relations* is used as a basis for the course.
Credit, 5(5-0).
245. SEMINAR. Open only to Seniors with a major in Political Science.
Any Quarter—Credit, 3(0-6).
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RURAL ENGINEERING

121. FARM MACHINERY. This course includes a study of farm machinery, repair and upkeep, with special emphasis being placed on winter care. Demonstrations and tests are made with various implements with students performing the operations.
Fall Quarter—Credit, 3(2-2).
122. FARM SHOP PRACTICE. A practical farm shop course covering carpentry, forging, leather work and metal soldering. All practices will be based on what the farmer should do on the farm. This course is especially designed for students intending to teach vocational agriculture.
Winter Quarter—Credit, 3(0-6).
123. FARM DRAINAGE AND ROAD BUILDING. The beneficial effects of drainage on soil and farm crops. The mapping for drainage systems with construction methods and costs.

The location, design, construction and maintenance of farm roads, materials used in road building.

Spring Quarter—Credit, 4(2-4).

130. FARM BUILDINGS. Construction, cost, management and ventilation of farm buildings, laboratory exercises in designing and estimating costs.

Prerequisite: A course in Mechanical Drawing.

Winter Quarter—Credit, 3(2-2).

SECRETARIAL SCIENCE

CERTIFICATE IN SECRETARIAL SCIENCE

This course is designed for those who have been graduated from an accredited high school and cannot devote more than two years to college work, but who wish to equip themselves for efficient service as confidential secretaries. Upon the satisfactory completion of this course a certificate is awarded.

Persons with a college degree or two years accredited teaching experience, and graduate from a standard high school may spend one year and fulfill the requirement for certificate in Secretarial Science.

211. BOOKKEEPING. A complete course in the fundamentals of bookkeeping. Required of students working for special certificates in secretarial training. Students who took bookkeeping in secondary school or equivalent training will be permitted to take an examination and if the quality of work in the examination is satisfactory a course in accounting may be elected.

Winter Quarter—Credit, 5(5-0).

212. SECRETARIAL STUDIES. This course deals with the qualifications, duties, responsibilities and work of a secretary. The other points considered are: Managing callers, handling correspondence, locating sources of information, making appointments, and other routine and special duties in systematizing the office.

Spring Quarter—Credit, 6(2-8).

214. SHORTHAND. The course includes a study of word building and the general principles outlined in the Gregg shorthand manual and speed studies. The first five lessons are thoroughly mastered during this quarter.

Fall Quarter—Credit, 5(5-0).

215. **SHORTHAND.** This course is a continuation of 214 and with added emphasis on transcription of simple letters and documents.
Prerequisite: 214.
Winter Quarter—Credit, 5(5-0).
216. **SHORTHAND.** The principles are concluded early in this course and emphasis is placed on difficult dictation, speed test and reporting speeches.
Prerequisite: 215.
Spring Quarter—Credit, 5(5-0).
217. **TYPEWRITING.** The typewriting course covers a working knowledge of the use of all parts of the typewriter, a thorough command of the keyboard by means of the touch system, rhythmic drills, practice in writing words, etc.
Any Quarter—Credit, 2.5(0-5).
218. **TYPEWRITING.** This course is concerned with tests and drills for speed and accuracy in the transcription of easy material from printed matter and shorthand notes.
Prerequisite: 217.
Winter Quarter—Credit, 2.5(0-5).
219. **TYPEWRITING.** Technical typewriting is emphasized in this course by allowing the student to spend most of his time on tabulation, stencil cutting, report-making and other practical duties.
Prerequisite: 218.
Spring Quarter—Credit, 2.5(0-5).
221. **OFFICE TRAINING.** This is a training course in office appliances commonly used in the modern office, such as adding machine, mimeograph, filing equipment, etc. Students will be required to do practice work in the offices and plants in and around Greensboro. A study is also made of the executive work connected with offices of many types. Two hours each week are devoted to discussion of the various problems found in these offices.
Fall, Winter or Spring Quarter—Credit, 9(2-15).
(Work may be taken during any quarter at the discretion of the instructor.)
222. **ADVANCED STENOGRAPHY.** Advanced stenography is a review of the principles and practices of shorthand and typewriting for the purpose of developing speed. Empha-

sis is put on the details of report-making, taking dictation from speakers and other specialized fields of shorthand and typewriting. Open to all persons who have had Gregg shorthand.

Winter Quarter—Credit, 5(5-0).

SOCIOLOGY

231. **PRINCIPLES OF SOCIOLOGY.** A general survey of the field of sociology as a social science. Particular emphasis will be laid on social organization, conditions and problems.

Fall Quarter—Credit, 5(5-0).

232. **COMMUNITY LIFE.** A detailed study of community life, both rural and urban. Social issues that affect state as well as municipal government will be given much attention. Students will be encouraged from time to time to acquaint themselves with current problems in specific communities.

Winter Quarter—Credit, 5(5-0).

233. **INTRODUCTION TO ANTHROPOLOGY.** The field of anthropology; origin and antiquity of man, his essential characteristics, relation to the animal kingdom; criteria of race distinction, the several races and some anthropological problems.

Spring Quarter—Credit, 3(3-0).

241. **THE FAMILY.** A survey of the family organization from primitive times to the present, and the analysis of the factors that enter into family development.

Fall Quarter—Credit, 3(3-0).

242. **RACE PROBLEMS.** A study of local conditions, situations, attitudes and progress of the various races in the United States, and methods of dealing with interracial problems.

Winter Quarter—Credit, 3(3-0).

243. **RURAL SOCIOLOGY.** A broad survey of the field of rural life in its social aspects.

Spring Quarter—Credit, 3(3-0).

244. COMMUNITY ORGANIZATION. Program and plans of organization, community councils, leadership. A study of national farmers' organizations from economic, social and political viewpoints. The Grange Farmers' Alliance, Farmers' Union, Farm Bureau, Non-Partisan League, etc., will be considered.

Winter Quarter—Credit, 4(4-0).

245. CASE STUDY OF SOCIAL PROBLEMS. Research course in social problems. Each student will be required to make a survey of a community. List, classify, interpret, contact, and dispose of a number of typical cases.

Any Quarter—Credit, 3(0-6).

THE TRADE SCHOOL

THE TRADE SCHOOL

The Trade School provides unit trade courses for persons who desire successful employment in the vocations of their choice. It is on the Smith-Hughes plan and is designed to attract men and boys from the different parts of the state to engage in the study of the trades. Its purpose is to meet the problem of training men and boys in the practice and theory of the various trades and to prepare them to work as journeymen. It is not intended that those who enter the trade school shall become highly trained foremen, but sufficient technical training will be given to enable them to appreciate and carry out the intent and purpose of these courses. There may be those, however, who are especially adapted that will naturally aspire to foremanships.

ENTRANCE REQUIREMENTS

Boys who are between fifteen and twenty years of age and have completed the seventh grade of a grammar school, or its equivalent, will be admitted to the trade course for which they are adapted.

Students over twenty years of age will be admitted to any trade course for which they are adapted. No educational qualifications will be required.

Tradesmen who desire advanced instruction or supplementary work in their trades may take such work during the dull seasons, provided these courses may be arranged for them.

The trade school will be open to boys who desire part-time preparatory and part-time extension trade courses.

The trade school conducts evening classes for tradesmen who wish to increase their vocational efficiency.

TRADES AND INDUSTRIES OFFERED

The following trades and industries are offered: Auto Mechanics, Blacksmithing and Wheelwrighting, Bricklaying, Carpentry, Cabinet Making and Upholstering, Lighting and Plumbing, Machine Shop Practice, Shoe Repairing, Tailoring, Hotel and Lunchroom Management, and Laundry Management.

The length of time required to complete a trade course will depend upon the degree of difficulty of the trade and the

ability of the individual taking that trade. According to our plan the average trade may be learned in two years. A less difficult trade may be learned in one year, while a more difficult trade or industry, especially the "multiblock trades," and laundry management will require three years.

OUTLINE OF COURSES—TRADE SCHOOL

First Year

	1st Quarter		2nd Quarter		3rd Quarter	
	Credit Hours	Actual Hours	Credit Hours	Actual Hours	Credit Hours	Actual Hours
Arithmetic (Applied) ..	5	60	5	60	5	60
English	5	60	5	60	5	60
Civics and History.....	5	60	..	..	..	..
Drawing .....	..	..	..	..	..	..
Shop Work	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>
Total	35	420	31	432	31	432

Second Year

Mathematics (Applied)	5	60	4	36	3	36
English	3	36	2	24	2	24
Trade Science	2	24	..	..	..	..
Bookkeeping .....	..	..	3	72	3	72
Drawing	3	72	..	..	..	..
Blueprint Reading ....	..	..	2	48	2	48
Shop Work	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>
Total	33	422	30	470	30	470

The following course is offered to those students who remain three years:

Third Year

Mathematics (Applied)	2	24	2	24	2	24
English	3	36	3	36	3	36
Drawing	2	48	..	..	..	..
Industrial History ....	..	..	3	36	3	36
Strength of Materials..	2	48	2	48	2	48
Shop Work	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>	<u>20</u>	<u>240</u>
Total	29	400	30	384	30	384

The description of each of the above courses will be found in following pages under "Description of Courses."

Note: See following pages for outline of courses of study for students wishing to pursue the course in Laundry Management.

DESCRIPTION OF TRADE SCHOOL COURSES

BOOKKEEPING

The purpose of this course is to enable the tradesman to keep his accounts and to acquaint him with simple business rules and regulations in order that he may be able to look after his own business affairs, especially those which have to do with his trade activities.

CIVICS AND HISTORY

The prime objective of this course is to make the tradesman a law-abiding citizen and to help him adjust himself easily to society and to appreciate his relations and responsibilities to his fellow citizens. He must, therefore, have some knowledge of the laws and government of his community, town, state and country.

DRAWING

Students in all trades will be given beginner's drafting. The proper use of drafting instruments, freehand lettering and sketching will be taught. Students in each trade will be taught drawing as applied to their particular trades.

ENGLISH

Students in the trade school will be taught English according to their needs. Emphasis will be put upon correct usage both in speaking and writing so that the tradesman will express himself intelligently on matters pertaining to his trade, business, and social career. The course includes the writing of business letters, sentence structure, punctuation, and paragraphing. Attention will also be given to the study and writing of simple contracts, agreements, bids, and specifications.

MATHEMATICS

The courses in mathematics are designed to meet the needs of all trade students. Those who have sufficient training in arithmetic will be given instruction as it applies to the trade problems. Students who have had no training in arithmetic will be given elementary work with a view of preparing them as fast as possible for the related work in mathematics.

STRENGTH OF MATERIALS

This course will include the testing for strength of good and faulty timber, glues, glued joints with reference to various kinds of wood, cross and end grains, the effect of tem-

perature and pressure in making glued joints, sands, cement and concrete.

TRADE SCIENCE

The purpose of this course is to give the tradesman the particular scientific facts with which he comes in contact in the actual practice of his trade. These facts are taught in terms of the actual manner in which they affect the carrying on of trade operations and processes. Attention is given to mechanical advantages of levers, brackets, wheels and axles, derricks, hoists, etc. The properties of materials such as wood, stone, cement, bricks, plaster and the effects which air, moisture, acids, etc., have on such metals as tin, lead, copper and iron will be studied.

TRADE HISTORY

Where students are advanced in academic work a little time will be given to the study of Trade History in respect to its origin, progress, etc. This along with a brief course in Industrial History will suffice to make one better appreciate his trade.

OUTLINE OF COURSE IN AUTO MECHANICS

GENERAL MECHANICS

Training Objective: General repairman of reasonable skill and ability.

Length of course: Two years of 9 months each.

Amount of time in shop: Five hours per day.

Section 1. Bench work (For students without related shop subjects), 240 hours.

Section 2. Chassis and chassis repairs (total 280 hours) :

1. Frames and springs, 65 hours.
2. Steering gears and front axles, 45 hours.
3. Rear axles and springs, 125 hours.
4. Lubrication, 20 hours.
5. Tire care and repair, 25 hours.

Section 3. Power system (total 400 hours) :

1. Clutches, transmissions, universals, 65 hours.
2. Engine assembly and repair, 120 hours.
3. Lubrication, 20 hours.
4. Cooling system, 40 hours.
5. Fuel system, 150 hours.

Section 4. Starting and Lighting System (total 450 hours) :

1. Elementary electricity, 200 hours.
2. Ignition (battery and magneto), 110 hours.
3. Batteries and battery care, 40 hours.
4. Starting motors and generators, 50 hours.
5. Wiring and lighting, 50 hours.

Section 5. Body care and repair (total 60 hours) :

1. Washing and polishing the car.
2. Minor repairs to top and upholstery.
3. Repairing doors and removing body squeaks.
4. Removing old and installing new bodies.
5. Repairing fenders, hoods, aprons and radiator covers.
6. Repairing dents in the body.

Section 6. Auxiliary apparatus (total 60 hours) :

1. Safety devices.
2. Horns.
3. Windshield wipers.
4. Rear view mirrors.
5. Stop lights.
6. Car heaters.

Section 7. Operating and trouble shooting (total 120 hours) :

1. Chassis.
2. Power system.
3. Starting and lighting.
4. Body.
5. Auxiliary apparatus.

Section 8. Shop methods and management (100 hours).

NOTE: Maximum size of class, 25 students.

CARPENTRY

First Year:

A study of the tools used by the carpenter and their care. Exercises in making the various types of joints used by the carpenter. Cutting and placing sills, joists, studs, corner posts, girders, plates, bridging, braces, single and double headers for door and window openings, partitions, headers and trimmers for stairway and chimney openings.

Lectures. Woods, their growth and structure, grading rules, methods, and types of framing, the steel square, care and operation of wood working machinery.

Second Year:

Making and placing door and window frames. Interior finishing, such as jobs involving the cutting and placing of casings, bases, mouldings, etc. Covering of inside floors and walls; hardware. Exterior covering and finishing as shingling, finishing of eaves and gables, siding, sheathing, corner boards, wire for plaster or stucco finish.

Lectures. The finish of floors and interior wood work. Trade terms; various materials used on interior and exterior and finishing; contractors' methods.

STAIR BUILDING

Third Year:

Jobs involving the laying out, cutting and placing of straight run stringers, platform flights, dog leg flights, treads, risers, newels, skirting boards, rails, balusters, etc. Roof framing involving the cutting, placing and nailing of jack, common, valley and hip rafters. Chimney opening.

Lectures. Blueprint reading and estimating.

CABINET MAKING COURSE

First Year:

Care and use of tools. Making of joints used in cabinet maker's trade. Building talorets, tables, book cases and other pieces involving the use of the various joints. Practice in chair caning. Interpretation of simple cabinet maker's drawings.

Lectures. Furniture, Woods, their growth and structure. Grading rules, mill practice, costs.

Second Year:

Wood work continued. Fine and period furniture, veneering, simple carving, wood turning, furniture finishing, rubbing and polishing, mixing of stains, fillers, etc.

Lectures. Furniture construction finishes, characteristics of period furniture.

FURNITURE UPHOLSTERING

First Year:

Furniture upholstery. Tools and accessories, springing up, pillow and cushion, the pad seat, the hard stitched edge, double stuffing, circular backed chairs, spring back pieces, simple and pleated buttoning, cording, banding, gimping, etc.

Overstuffed furniture upholstering, trimming, overstuffed pieces.

Lectures. Estimating, classes of fillers and fabrics, springs, the four principal textile weaves, advertising.

SHOEMAKING AND LEATHER WORK

First Year Trade:

The student first learns the construction of the various kinds of shoes; the method of fastening the parts together—welts uppers, innersoles, outsoles, felts, stays and all forms and classes of heels. Thread and needle are next studied. The art of twisting and waxing threads, attaching threads to bristles, uses of threads and needles are included in this study. The student is next taught the use of the knife; cutting and fixing soles, stays, heels and uppers; patching; capping; sewing rips; uses of hammer, rasp, buffers, sandpaper and nails; sizes of nails; use of ink, and burnishing and finishing. In addition the student is taught the care and operation of foot-power machinery and its use in sewing rips and patching.

Second Year Trade:

All students having satisfactorily completed their first year course in shoemaking will begin their second year course with the study of leather, its qualities, kinds and treatment. The various kinds of shoes, cloth, rubber, composition, imitations of leather are studied. Emphasis is placed on the repair of the shoes. The various kinds of heels are next studied—wooden heels, aluminum heels, military heels, Cuban heels, Baby Louis heels, French and rubber heels. The student is then taught the fitting of rubber and aluminum heels, and the recovery and fitting of leather heels. The various methods of soling are taken up next—hand sewed soles, machine sewed, tacked and channel nailed. Manipulation and care of power machines, eyelet machines, button machines; making of buttonholes; uses of cements; and the cutting of tongues and vamps and soles, completes the course.

MACHINE SHOP PRACTICE

Section 1. Plain turning between centers—cast iron, steel and soft metals. Grinding roughing tools. Facing ends—all metals. Chucking. Use of outside and inside calipers. Cutting off stock. Truing rough castings. The use of lathe dogs and special clamps.

Section 2. Setting up work with use of jigs. Tool making: machine taps, tempering and testing. Drilling holes in sheet metal where special clamps are involved. Boring deep holes on lathe with special tool. Working brass and copper on the lathe.

Section 3. Nomenclature of machines. Adjusting machines. Setting up new machines. Speeds and feeds for various grades of work and upon various grades of material. Making small parts for machines with use of drill press and lathe. Threading pipe with pipe threading machine.

Section 4. Job work (outside work). Operation of milling machine, key seating, end milling, etc. Gang milling. Horizontal milling. Vertical milling. Gear cutting. Function and use of standard machines.

TAILORING

The course in Tailoring covers three years of thorough training in repairing, cleaning, pressing, altering, making of suits and overcoats. The variety of making new garments and in repairing permits arranging and carrying out of a course of study which equips a student for such work as is met in commercial life.

The course of study follows:

First Year:

Care of shop and tools. Position on tailor's board. Practice in use of needle, thimble; in overcasting, felling, back-stitching, making button holes and machine sewing. Study and classifying materials, practice in making flies, waistbands, straps, flaps for pockets, pockets from drafts, cutting and fitting linings, spacing buttons, application of measurements, cutting linings, spacing buttons and finishing uniform trousers, civilian trousers and overalls.

Second Year:

Review. Studying different parts of the vest, making various pockets, collars, facing and working from drafts. Vest making. Vest drafting, studying the various parts of the coat. Cutting and making canvas collars and sleeves. Working from drafts, making facings, foreparts, edges, joining seams, basting, linings, and finishing work.

Third Year:

Review of first and second year work. Coat and overcoat making. Studying changes that affect work in citizens' garment making. Work on ordinary citizens' garments continued. Studying grades of material, estimates, cost and quality of materials. Working from drafts. Study of harmony in colors, drapery in garments. Measuring, drafting and cutting the garments studied. Students are required to make a suit to show proficiency. Study of current trade events during the year.

BRICKLAYING

The course in Bricklaying and Plastering requires two years for completion.

Practical instruction in house building, chimney and flue construction, concrete work and kalsomining is given. Working drawings, materials, formulae, technical problems and estimates, are taken up during the regular periods. Lectures covering the above are given at intervals throughout the year.

All models are constructed from blueprints or working drawings.

First Year: .

Classification of materials, constructing piers, pillars, walls of different bonds and sizes, arches and corners of different sizes and designs. Laying brick sills for doors and windows, setting window and door frames, constructing flues, single chimneys, burial vaults, scaffolding, etc. Live practice. (Weekly lecture on related problems.)

Second Year:

Rapid review of first year. Staking out and laying off buildings, excavating, foundation leveling, manhole construction, hollow tile and face brick construction, mantle and veneer construction, chimney construction and line practice. (Weekly lectures on related work.)

PLUMBING*First Year:*

Plumbers' tools and their uses. Joining flux used in soldering, solder, fitting for drain, soil waste and vent pipes. Location of traps, location of air inlets, vents, traps, etc. Rain

water conductors method of determining size. Location of water closets, tanks and urinals. Ventilation of water closets, traps, test for drainage system, method of applying.

Second Year:

Sewers and sewage systems. Principles of house drainage, filtration, water supply, etc. Principles of hot water circulation. Pneumatic water supply, ventilating shafts, areas. Air, lack, causes, and prevention.

Third Year:

Methods of supplying country houses by hydrants, pumps, wind mills, etc. Bacterial action in septic tanks. Plumbing systems for hospitals and schools. Plumbing systems for mills and factories. Plumbing systems for office and store buildings. Plumbing systems for apartment and tenement houses. Correcting defective plumbing plans. Process for obtaining permits, license, etc.

LAUNDRY MANAGEMENT

In addition to its rapid and splendid growth in the past few years, the college has increased its constituency by establishing a modern and in every way up-to-date steam laundry. The plant is built for the purpose of meeting the needs of the students and faculty; but greater than this, however, is the opportunity that it offers to students to receive instruction, along the line of commercial laundering. The superintendent, a man of experience in this particular line of work, is in charge of the plant and we are now offering the following three-year course to all prospective students:

COURSE OF STUDY

First Year:

During the first year the student's work will consist of the following: Marking and assorting of soiled linen; classifying of various articles in the respect of type; learning how to operate and care for the American marking machine; helping in the work room; learning how to operate and care for the American motor-driven extractor; shaking out flat linen; feeding and folding of linen after ironing; learning how to operate and care for the American dry tumbler; operating the sock machine; keeping work and marking room clean and sanitary.

Second Year:

In the second year the student will concentrate his time and effort on the work room and its equipment. The operating of the American work machine will be carried on in the following manner: Use of hot and cold water; taking notice of time consumed in working different kinds of linen; how and when to change water in machine; when to add soap, bleach, and blue; how to cook and use starch correctly.

Third Year:

In the third year the student will be expected to complete the following: Operating of sheet units; finishing of shirts, collars, socks, etc.; folding and classifying of underwear: operating of the American press machine; hand ironing of various descriptions; pressing of suits; operation of the United States Hoffman garment press; assorting and checking out of each individual package, wrapping, sealing, and delivering.

DISTRIBUTION OF STUDENTS BY CLASSES

SENIOR CLASS—1931-32

Armwood, Walter A., Brewer Normal School	Greenwood, S. C.
Beverly, Peter	Jarratt, Va.
Brown, Oveta V., Miss, 192 Warrent St.	Englewood, N. J.
Coles, Jonas H., 833 Buttonwood St.	Philadelphia, Pa.
Colson, Lester C., Box 155	Norwood
Diffay, Hattie E., Miss, 720 11th St.	Birmingham, Ala.
Dillard, Cecil R.	Tupelo, Miss.
Forney, Dorus E., 509 13th St.	Hickory
Foster, Nora Joyce, Miss, 258 E. Henry St.	Spartanburg, S. C.
Gillard, Charles Bratton, 425 N. Caldwell St.	Charlotte
Harris, James E., 1014 Gay St.	Rocky Mount
Harris, William C., 315 Winston St.	Greensboro
Hazel, Benjamin, 507 Pollock St.	Beaufort
Hill, Carrie V., Miss, 141 Beech St.	Greensboro
Hull, Ruth, Miss, 23 Catholic Ave.	Asheville
Jenkins, Bennie H., 312 Maple St.	Ahoskie
Jenkins, Chester, P. O. Box 334	Ahoskie
Johnson, Walter T., Route 2, Box 19	Rocky Point
Jones, James H.	Lenoir
Jones, Robert E., Route 6, Box 86	Henderson
Jones, William H., 146 Colloden St.	Hertford
Lewis, Curtis, Box 164	Jackson
Martin, Thomas W., Box 282	Spray
Mitchell, James J., Route 4, Box 36	Ahoskie
Moffitt, James L., 907 Lincoln St.	Greensboro
Moore, Jack W., Box 558	Hickory
Parker, Pearl B., Miss, 1108 Kivett Drive	High Point
Pollard, Floyd C., 102 E. Bizzell St.	Laurinburg
Rowell, James E., 508 E. Henry St.	Florence, S. C.
Saunders, Clifton A., 711 S. Macon St.	Greensboro
Slade, William H., Route 1, Box 144	Robersonville
Sledge, Fred D.	Vaughan
Taylor, Andrew Wesley, 504 Beech St.	Greensboro
Thornton, Burnis H., Box 261	Warrenton
Whitley, James E.	Smithfield
Williamson, Troy L., Route 1, Box 3	Ruffin
Woodard, Fred O., 4510 Vinceness Ave.	Chicago, Ill.
Wood, Frank T., 436 Cumberland St.	Norfolk, Va.

JUNIOR CLASS—1931-32

Arledge, Odessa, Miss, 501 Benbow Road	Greensboro
Barrier, Josephine, Miss, 122 N. Dudley St.	Greensboro
Brooks, Valerie M., Miss, 707 Roosevelt St.	Badin
Broome, Taft H.	Dallas
Browning, James C.	Burlington
Bryant, Charles L., 922 S. 7th St.	Wilmington
Buffaloe, Otis, Box 44	Brown Summit
Capehart, William W., 312 Smithfield St.	Raleigh
Capott, Russel Joseph, Route 1, Box 295	Norfolk, Va.
Carmack, Jordan, 118 N. Depot St.	Rogersville, Tenn.
Darden, Toussant, Box 54	Faison
Davis, Ralph H.	Sylva
Dillard, Katrine I., Miss, 713 S. Ashe St.	Greensboro
Dupree, Ollen A., 604 Tyson St.	Greenville
Eberhardt, William H., 1420 Hancock Ave.	Athens, Ga.
Graves, Margaret M., Miss, P. O. Box 343	Gibsonville
Hamilton, Joseph B., 604 Asheville St.	Morganton
Hines, Edward, 317 Beech St.	Greensboro
Holland, Theodis H., 1437 N.W. 6th St.	Miami, Fla.
Ingram, Nash L., 104 N. Stewart St.	Rockingham
Jenkins, Albert T.	Norfolk, Va.
Jenkins, Rosa, Miss, 903 3rd St.	Durham
Jones, Edward J., 317 Beech St.	Greensboro
Keiser, Luther A., 414 Taylor St.	Oxford
Kelly, Mary Jane, Miss, 45 Catholic Ave.	Asheville
Kennedy, Joseph, 407 Formos Ave.	Durham
Knight, David J., 317 Raleigh Road	Rocky Mount
Larkin, Francis L., P. O. Box 52	Teachey
Lawrence, Chauncey L., Box 18	Winfall
Ledbetter, Freeman H., 407 Sunset Drive	Greensboro
Lee, Floyd, 2317 Wood St.	Shelbyville, Ill.
Lyons, John H.	Timberlake
Monroe, Walter H., 504 Lindsay St.	Greensboro
Moore, Lemuel B., 831 Crawford St.	Rock Hill, S. C.
Morris, Luther J., P. O. Box 186	Rich Square
Morris, Washington I., Box 529	Reidsville
Robinson, William F., 209 N. Dudley St.	Greensboro
Scott, Clyde Swanson	Clover, Va.
Sessoms, Nathaniel H., Route 1, Box 4	Powellsville
Shavers, Windsor W., Box 353	Leaksville
Silver, Samuel C.	Enfield
Smith, Charles C., 1320 Florida Ave.	Portsmouth, Va.
Stanback, Albert L., 145 Center St.	Chester, S. C.

Steel, Alice Mae, Miss, 999 Armstrong St.	Greensboro
Thompson, Alonzo Fuller, Route 2, Box 8	Faison
Walker, Vivian Lois, 802 South Jefferson St.	Dublin, Ga.
Wallace, Harriette Pearl, Miss, 222 Regan St.	Greensboro
Warren, William Robert, 58 Liberty St.	Long Branch, N. J.
Washington, T. Wilkins, 2901 9th Ave.	Huntington, W. Va.
Watson, Paul E., 906 Salem St.	Greensboro
Wicks, Wade Hampton, P. O. Box 294	Halifax, Va.
White, Vincent DeVan, 472 St. John St.	Spartanburg, S. C.
Williams, Clarence E.	Littleton
Williamson, Walter Curram, 697 S. Elm St.	Statesville
Willis, George Hamilton, 913 Watkins St.	Winston-Salem
Winfield, Charles P., 2 Bushnell Place	Mt. Vernon, N. Y.

SOPHOMORE CLASS—1931-32

Armstrong, Theodore D.	Candor
Balsley, Ernest E., 146 East 8th St.	Winston-Salem
Blalock, Jasper, Route 1	Varina
Bluford, Zena, Miss, 4622 Fairmount Ave.	Philadelphia, Pa.
Bright, James Francis, 512 Beech St.	Magnolia
Brown, William R.	Barber
Burge, Green Lee, 1615 E. Market St.	Greensboro
Charlton, James E., 136 E. Carteret St.	Edenton
Clark, George R., 622 S. Ashe St.	Greensboro
Cox, Booker T.	Winterville
Dulin, Alice Eva, 993 Armstrong St.	Greensboro
Elliott, Elmond A., 58 Dobbs St.	Hertford
Elliott, Percy Lee, 58 Dobbs St.	Hertford
Evans, Otis, Box 70	Walstonburg
Flemster, James W., 709 W. 13th St.	Hickory
Frazier, W. Francis, 1308 S. Ashe St.	Greensboro
Galloway, Drewella F., Miss, 1116 E. Market St.	Greensboro
Galloway, Lillian Hortense, Miss, 1116 E. Market St.	Greensboro
Grimes, Willie Thomas, 521 Pennsylvania Ave.	Rocky Mount
Harris, Edward M., 322 Rockspring St.	Athens, Ga.
Hawkins, Samuel	Burlington
Haygood, Preston, 904 E. Boundary St.	Charlotte
Hazel, Irene M., Miss	Burlington
Hazel, Margaret S., Miss	Burlington
Henderson, Howard W., 1135 Odgen St.	Philadelphia, Pa.
Holt, Ernest W.	Wilson Mills
Houston, Edward S., Box 22	Live Oak, Fla.
Huntley, Lydia Bertinia, Miss, 938 McCulloch St.	Greensboro
Jenkins, Walter M., 130 S. Campbell St.	Camden, S. C.

Johnson, Carrie E., Miss, Box 132	Rowland
Lassiter, Grady L.	Harrelsville
Lawson, James Henry	Reidsville
Leak, John Kivett, P. O. Box 53	Wadesboro
Lee, Lillian J., Miss, P. O. Box 942	Hamlet
Luck, Grant P., 707 Law St.	Greensboro
McAdoo, Arthur F., Route 4	Greensboro
McCoy, Almo N., P. O. Box 7	Method
McCray, Lois E., Miss, 423 Lindsay St.	Greensboro
McKoy, Andrew J., 210 N. Regan St.	Greensboro
McLeod, William A., Route 2, Box 26	Laurinburg
Mason, Frank L., Box 64	North Emporia, Va.
Mills, John R., 228 N. Edgeworth St.	Greensboro
Monroe, Eugene, 1010 19th St.	St. Petersburg, Fla.
Moore, Jack Phillip, 169 Hill St.	Asheville
Morrow, Archibald H., 705 Hargrave St.	Winston-Salem
Parker, William C., 1108 Kivett Drive	High Point
Parks, Irma L., Miss, 834 Austin St.	Greensboro
Pearson, Phairlever	Mt. Pleasant
Peay, William Lester, 204 Lincoln St.	Concord
Pittman, James Jethro, 829 Austin St.	Greensboro
Price, Maud E., Miss, 470 Cole St.	Greensboro
Price, Frederick A., Princess Anne Academy	Princess Anne, Md.
Raigns, John H.	Scotland Neck
Robinson, Clarice D., Miss, 209 N. Dudley St.	Greensboro
Rogers, Leonard	Method
Sawyer, Clarence I.	Shoals
Smith, Calis Earl, 606 Cedar St.	Beaufort
Smith, Emma Lee, Miss, 612 Baldwin Ave.	Charlotte
Stewart, John Edward, 1209 S. 6th St.	Wilmington
Tatum, Marian C., Miss, 409 N. Dudley St.	Greensboro
Telfair, Reginald E., 615 Walnut St.	Wilmington
Vick, Dorsey J., 1401 Mt. Vernon Ave.	Newport News, Va.
Walker, Arnold George, 387 W. Battle St.	Taladega, Ala.
Watlington, Henry H., 501 Beech St.	Greensboro
White, Martha V., Miss, 1300 Pine St.	Chattanooga, Tenn.
Whitlock, Hazel L., Miss, 2305 Connecticut St.	Gary, Ind.
Wiggins, Henry D.	Winfall
Williams, Elson K.	Blounts Creek
Woods, Naurice F., 221 E. Gaston St.	Greensboro
Wright, Hattie Graves, Miss, 422 N. Dudley St.	Greensboro

FRESHMAN CLASS—1931-32

Albright, Marvin	Burlington
Anderson, John R., 123 N. Jefferson St.	Roanoke, Va.
Anderson, Lois E., Miss, 1215 Flynn St.	Chattanooga, Tenn.
Banks, Burnwell B., 360 W. Bragg St.	Greensboro
Banks, Delbert H., 360 W. Bragg St.	Greensboro
Barnhill, Burgoyne F., Box 71	Troy
Bass, Henry M., General Delivery	Suffolk, Va.
Baugham, George C., Route 1, Box 84	Rich Square
Belton, Benjamin C., 1602 Campbell St.	Camden, S. C.
Boger, Helen Inez, Miss, 1019 E. Washington St.	High Point
Boyce, Cornelius C., Route 1, Box 115	Rich Square
Brown, Hebert E., 1110 N. 7th St.	Wilmington
Brent, Robert E., Route 4, Box 81	Staunton, Va.
Brown, Price	Barber
Browning, Lucian F.	Burlington
Bryant, Hollie L., Star Route, Box 42	Supply
Burgess, Vincent, 356 Halsey St.	Brooklyn, N. Y.
Burnett, William E., 416 Seventh St.	Wilmington
Burrell, Annie I., Miss, P. O. Box 226	Drakes Branch, Va.
Burnside, John L., 918 Whitted St.	Henderson
Bynum, Price B., Rev., P. O. Box 1079	Greensboro
Canada, Weldon D., 938 Main St.	Woburn, Mass.
Caviness, Vernell J., 707 Law St.	Greensboro
Collins, Hugh H., 709 N. Fall St.	Gastonia
Daniels, Veola, Miss, 404 Boyd St.	Greensboro
Davis, Charles G., 1611 Fayetteville St.	Durham
Dillard, John William, 713 S. Ashe St.	Greensboro
Drake, Joseph F., 535 Russell St.	Fayetteville
Dudley, Samuel L., 708 N. Green St.	Greensboro
Dunn, William L.	Spring Hope
Elliott, Balaam E., 1112 McGee St.	Greensboro
Ellis, Edward P., 1419 Oak St.	Columbia, S. C.
Faucette, Homer G., Route 4, Box 113	Burlington
Finney, Claude S., Route 1, Box 22	Cumberland, Va.
Fisher, Arthur W., 519 S. Craig St.	Salisbury
Gaines, Cyril H., 901 Roosevelt St.	Badin
Gordon, Nancy M., Miss, 240 W. Whittington St.	Greensboro
Greene, Rachel V., Miss, Route 1, Box 64	Clio, S. C.
Griffin, Lymus R., Route 1, Box 124	Whiteville
Hargrave, Harvey M., 228 E. 3rd Ave.	Lexington
Harris, James R., Route 1	Concord
Hatcher, Mary H., Miss, 405 S. Center St.	Goldsboro
Haynes, Cicero, Route 1, Box 23	Whiteville

Hinton, Collins I., Route 2, Box 68	Clayton
Holloman, Ralph C., Route 4, Box 68	Ahoskie
Hooper, John N.	Greensboro
Hoover, Matthew A., 1309 Kivett Drive	High Point
Ivy, Joseph D., 503 Holbrook St.	Danville, Va.
Jones, Nathan	Snow Hill
Joyner, George W., Route 1, Box 37	Ayden
Joyner, J. Archibald, 65 Walnut St.	Farmville, Va.
Kearney, Ruth O., Miss, Route 2, Box 94	Macon
Kellam, Walter Lee	Pinnacle
Kennedy, Samuel M., 816 Royal St.	Spencer
Lane, Minnie Louise, Miss, Route 6, Box 210	Greensboro
Lanier, Jesse J., Route 1, Box 199	Bath
Leathers, Ethel M., Miss, 527 St. James St.	Tarboro
Ledbetter, Bessie L., Miss, 309 S. Stewart St.	Rockingham
Lennon, Harvey L., Route 1, Box 84	Whiteville
Long, Margaret E., Miss, Route 1, Box 76	N. Wilkesboro
McKoy, Josie Mae, Miss, Box 151	Southport
McKoy, Charles, 310 E. Franklin St.	Rockingham
McLendon, Henry T.	Ansonville
Marsh, Nannie Lee, Miss, 1010 Fanning St.	Wilmington
Mason, Stephen W., Route 5, Box 54	Henderson
Minor, Andrew M., 960 McCulloch St.	Greensboro
Mitchell, Annie R., Mrs.	Freeman
Mitchell, Marie, Miss	Freeman
Mobley, Willie N., 1106 Red X St.	Wilmington
Morgan, Emma L., Miss, 214 E. Street	Greensboro
Morton, Evelyn B., Miss, P. O. Box 158	Drakes Branch, Va.
Nelson, Johnie C., 1618 Campbell St.	Camden, S. C.
Newsome, Herman G., Route 2, Box 103	Fremont
Owens, Annie Belle, Miss, Route 1	Pendleton, S. C.
Poole, Johnnie J., 628 S. Ashe St.	Greensboro
Price, Charles Wesley, 15 Sound View Terrace	Norwalk, Conn.
Rankins, Rachel R., Miss, 1615 McConnell St.	Greensboro
Ray, Lawrence N.	Montgomery, W. Va.
Reeves, Hazel L., Miss, 1929 N.W. 5th Place	Miami, Fla.
Richardson, Arthur R., 66 Hopedale St.	Allston, Mass.
Richardson, Everett E., 1339 E. Washington St.	High Point
Roberts, Allen, Box 503	Leaksville
Robinson, John H., 603 Watson St.	Greensboro
Rogers, Alma, Miss, 904 Thaxton St.	Durham
Rogers, Jesse S., 1102 Sharpless Ave.	Melrose Park, Pa.
Scott, Cecil G., 123 Brown St.	Georgetown, Ky.
Shelton, George Alexander, 391 Warren St.	Roxbury, Mass.
Speller, John T., Route 4	Windsor

Strickland, Branson	Asheboro
Wallace, Margaret Louise, Miss, 222 Regan St.	Greensboro
Ward, Stanford, J., P. O. Box 291	Leaksville
Watkins, Selma L., Miss, Route 2, Box 8	N. Wilkesboro
Williams, Cornelius N.	Littleton
Withers, Robert B., 519 Bennett St.	Greensboro
Wortham, Euna Lee, Miss, 801 S. Cedar St.	Greensboro
Wray, John D., 150 N. Dudley St.	Greensboro
Yelverton, Sadie M. E., Mrs. 709 Church St.	Wilmington

SPECIAL STUDENTS

Andrews, Lillian, Miss	Burgaw
Armstrong, J. Neil, 112 Church St.	Rogersville, Tenn.
Artis, Isaac	Wilson
Beaty, Fannie C., Miss, 514 N. McDowell St.	Charlotte
Bullock, Douglass R., 501 Bennett St.	Greensboro
Davenport, Warner Conway	Fally, Va.
Fuller, Walter R.	Sedalia
Green, Carlos, 400 East Blount St.	Kinston
Harris, Wrenton O., 1608 Fayetteville St.	Durham
Lee, Arthur, 933 E. Market St.	Greensboro
Lee, J. Phelbert, 457 Chestnut St.	Lexington, Ky.
Lindsay, Edward H.	Eagle Springs
McMurray, George H., Cedar St.	Greensboro
Riddick, Walter H., 765 Washington Ave.	Norfolk, Va.
Sewell, William R., 608 Anderson St.	Greenville, S. C.
Toliver, William P., 985 Rubby St.	Norfolk, Va.

TRADE STUDENTS

Brown, James L., 1506 W. 42nd St.	Norfolk, Va.
Coley, David S.	Pikeville
Cooper, Myles B., Route 2, Box 28	Como
Cosby, John A., 333 W. Avenue	Hamlet
Currie, David, P. O. Box 190	Fayetteville
Glover, Fletcher Lee	Siler City
Kemp, John E., Pigeon St.	Waynesville
Manning, James D., Route 1	Kittrell
May, Clayton G., 205 S. 12th St.	Wilmington
Mayo, William, 880 C. Avenue	Norfolk, Va.
O'Neal, Dempster E., 119 Harrison St.	Festus, Mo.
Taggart, Everett V., 1130 W. Hurrah St.	Salisbury
Wade, Richard F., 327 W. Fay St.	W. Chester, Pa.
White, Lenwood, 520 Ireland St.	Greensboro
Willoughby, Benjamin, 1117 Kivett Drive	High Point

STATE REHABILITATION

Bland, John J.	Warrenton
Davis, B. J., Route 5, Box 121	Whiteville
Johnson, Eugene	Greensboro
McDougle, Willie	Erwin
Owens, Henry	
Ramseur, William B., Route 1	Statesville
Saunders, James H., Route 1, Box 48	Coefield
Wilson, James	Greensboro

SUMMER SESSION, 1931

Adams, Carolyn R., Miss, Route 1, Box 112	Danville, Va.
Alexander, Hattie L., Miss, 204 Flint St.	Charlotte
Allen, Pearl, Miss	Leaksville
Andrews, Lillian	Burgaw
Armstrong, Theo. D.	Candor
Armwood, Walter A.	Greenwood, S. C.
Arnold, Lydia, Miss	Asheboro
Arrington, Louise V., Miss, Lincoln Academy	Kings Mountain
Artis, Isaac	Wilson
Austin, Lillie M., Miss	Halifax
Avery, Janie B., Mrs., 418 Banks St.	Greensboro
Barnhill, Della E., Mrs.	Troy
Barnhill, O. H.	Troy
Barnes, C. W. T., 708 E. 14th St.	Winston-Salem
Barret, Commodore A., 1003 Benbow Road	Greensboro
Bates, Anna L., Miss	Reidsville
Baucum, Rosa, Miss	Wadesboro
Beverley, Peter	Jarrett, Va.
Bobo, Olive, Miss, 397 Evens St.	Spartanburg, S. C.
Boney, Lessie, Miss, 916 High St.	Greensboro
Broadhurst, Hudie H.	Seven Springs
Brooks, Carrie M., Mrs., 910 E. Market St.	Greensboro
Brooks, Mabel V., Miss	Woodsdale
Brower, G. Jeannett, Mrs., 455 Cole St.	Greensboro
Brown, Essie Marie, Miss	Trinity
Brown, G. Gibbs, Mrs., 946 W. McCulloch St.	Greensboro
Brown, Jessie M., Miss, 1223 Gray St.	Greensboro
Brown, Lauvinia C., Miss, 470 Second Ave.	Bartow, Fla.
Brown, Vivian L., Mrs.	Altamahaw
Bullock, Mary D., Mrs., 501 Bennett St.	Greensboro
Burge, Green Lee, 1615 E. Market St.	Greensboro
Caesar, Robert	Mt. Airy
Campbell, C. B.	Mooreville
Cannady, Marie L., Miss, Route 3, Box 120	Oxford
Capel, Kazee, Miss	Maxton
Carrington, Wilphria, Miss	Leaksville
Casino, Florence, Mrs. 1107 Perkins St.	Greensboro
Chalmers, John D., Route 2	Leaksville
Cheeks, Mermon E., 1104 Richard Ave.	Portsmouth, Va.
Childs, Jimmie V., Mrs., 360 N. Market St.	Greenwood, S. C.
Clapp, Willie A., Mrs., Route 2, Box 30	Greensboro
Clemmons, Johnsie, Miss	Morven
Coles, Jonas, 2612 Franklin St.	Philadelphia, Pa.

Coley, Hazell E., Miss, 1107 Canal St.	Goldsboro
Connor, Jessie Lee, 706 Lindsay St.	Greensboro
Cooper, Geo. W.	Hertford
Corbett, Margaret L., Miss, 125 N. Dudley St.	Greensboro
Cotton, Eunice V., Mrs., 513 Boyd St.	Greensboro
Cranford, Clara B., Miss	Asheboro
Cromartie, J. E.	Mt. Olive
Crowe, Mattie L., Mrs., 557 Wilmington St.	Greensboro
Currie, Lois J., Miss	Leadsbury
Davis, Fred D., 368 W. Worth St.	Mt. Airy
Dillard, Hassie, Miss	Leaksville
Dillard, Katrine, Miss, 713 S. Ashe St.	Greensboro
Dillard, Lillian, Miss, 713 S. Ashe St.	Greensboro
Dixon, Chester A., Route 1, Box 103	Rocky Mount
Dobbins, C. W.	Troy
Dodson, Mary E., Miss, 1267 Paxton St.	Danville, Va.
Dorsett, Mae Lee, Miss	Mt. Vernon Springs
Dover, Ochia, Miss, 812 Cotton St.	Raleigh
Dowdy, Dora G., Mrs.	Jackson Springs
Duckett, Cecelia M., Miss, 205 Downs St.	Laurens, S. C.
Edwards, DeLois M., Miss, Box 48	Siler City
Ellis, Willie Mae, Mrs., 100 S. Fulton St.	Salisbury
Enoch, Dorothea S., Mrs., 913 Benbow Road	Greensboro
Falkner, Ralph C. S., 131 N. Dudley St.	Greensboro
Falls, Louise J., Miss	Dallas
Faucette, Eunice M., Miss	Burlington
Fiemster, J. W., 709 13th St.	Hickory
Fitzgerald, L. D., 408 S. Caldwell St.	Salisbury
Fleming, Sethelle, Miss, 11 Druid St.	Greensboro
Forney, Cornelia T., Mrs., 105 N. Dudley St.	Greensboro
Forney, Dorus E., 509 14th St.	Hickory
Fort, Effie D., Miss, Box 53	Method
Foster, Annie Law, Mrs., 509 Boyd St.	Greensboro
Foster, Lettie Liles, Mrs., Box 36	Liberty
Foster, Nora J., Miss, 258 E. Henry St.	Spartanburg, S. C.
Foster, Pluma L., Mrs., Box 322	Liberty
Foulks, Samuel R., Route 4, Box 46	Greensboro
Foushee, Blanch, Miss	Glendon
Foust, Lillie A., Mrs., Route	Gibsonville
Foust, Lorena I., Mrs., 610 Gorrell St.	Greensboro
Fox, Louise R., Mrs., 841 Austin St.	Greensboro
Gaddy, Grace O., Miss, 1211 Shutte St.	Winston-Salem
Gaffney, James E., Mrs.	Gaffney, S. C.
Gaffney, James E.	Gaffney, S. C.
Gaither, C. M., Mrs., 910 E. Market St.	Greensboro

Galloway, Tedia Mae, Miss	Mt. Airy
Gill, Emma Leola, Miss, 206 W. Walnut St.	Gastonia
Gilreath, Grave V., Miss	Wilkesboro
Grant, Ernest E.	Asheboro
Graves, Willie F., Miss	Reidsville
Green, Nannie C., 1100 Kent St.	Durham
Green, R. L., Route 1	Seagrove
Greer, Alma, Miss, 406 Stewart St.	Greensboro
Greer, Maud C., Miss, 406 Stewart St.	Greensboro
Gwyn, Ollie, Miss	Jonesboro
Hailey, Fannie Mae, Miss	Hamlet
Hairston, Mary P., Miss	Walnut Cove
Hairston, Nicholas, 1425 Sanduskey St.	Pittsburgh, Pa.
Haith, Duval E., Miss, 310 Regan St.	Greensboro
Hall, Alice D., Mrs.	Reidsville
Hall, Dorophenia W., Mrs.	Greensboro
Hall, Sadie Elizabeth, Miss, 806 Redcross St.	Wilmington
Hall, Elanch L., Miss, 906 Redcross St.	Wilmington
Hargrave, Mary E., Mrs., 923 Lindsay St.	Greensboro
Hargrave, Jodie S., Route 1, Box 56	Faison
Harris, Carolyn, Miss, 910 Dunbar St.	Greensboro
Harris, James E., 420 W. Thomas St.	Rocky Mount
Harris, Ruth H., Mrs., 315 Winston St.	Greensboro
Harris, William C., 315 Winston St.	Greensboro
Harrison, Mary A., Miss	Mechanic
Hawkins, Esther V., Mrs.	Candor
Hayes, Suella S., Mrs. 442 Dudley St.	Greensboro
Haygood, Ernestine, Miss, 902 Manley St.	Raleigh
Hazel, Benjamin, 507 Pollock St.	Beaufort
Headen, Fannie B., Miss, 807 Bennett St.	Greensboro
Hemphill, Beulah M., Miss	Old Fort
Hemphill, Myrtle C., Miss	Old Fort
Henry, Addie, Miss, 87 Ridge St.	Reidsville
Hester, Clarence E., St. College Station	Raleigh
Hicks, Naomi E., Miss	Thomasville
Hill, L. L., Mrs., 418 Banks St.	Greensboro
Hinton, Easter, Miss	Clayton
Hines, Edward, 243 Pennsylvania Ave.	Rocky Mount
Holley, Willie Mae, Miss, 102 Garland St.	Greensboro
Holley, Bernice C., Miss, 204 N. Regan St.	Greensboro
Holloman, Esther, Mrs., 435 N. Dudley St.	Greensboro
Holloway, Josephine, Miss	Blanche
Hooker, Oppie N., Miss, Box 212	Sanford
Hooper, William R., Box 206	Old Fort
Horry, Sarah M., Miss, 5 Fishburne St.	Walterboro, S. C.

Hull, Ruth, Miss, 23 Catholic Ave.	Asheville
Huntley, Frederick D., 938 W. McCulloch St.	Greensboro
Ingram, Geneva C., Mrs.	High Point
Ingram, Nora M., Mrs., Route 1	Mt. Gilead
Jackson, Laura A., Miss, 221 Richland St.	Columbia, S. C.
Jackson, Lillian G., Miss, 417 Bank St.	Greensboro
Jackson, Lola M., Mrs., Box 631	Tryon
James, Katherine E., Miss	Reidsville
Johnson, Alverado B., Mrs., 1506 S. Ashe St.	Greensboro
Johnson, June A., Miss	Summerfield
Johnson, Sallie A., Mrs.	Greenport, L. I., N. Y.
Jones, Alice H., Mrs., 719 E. Green St.	Wilson
Jones, Nannie C., 317 Beech St.	Greensboro
Joyner, Ora T., Miss	Conway
Kee, Fannie B., Miss	Garysburg
Keiser, L. A., 414 Taylor St.	Oxford
Kirkpatrick, Bessie L., Miss, Route 2, Box 214	Charlotte
Kirkpatrick, Hopie F., Miss, Route 2, Box 214	Charlotte
Lander, Mozelle C., Mrs., 214 Hobson St.	High Point
Lanier, Lillie M., Miss, Box 122	LaGrange
Lassiter, Annie O., Miss	Oxford
Laws, Gladys, Miss	Garner
Leach, Lillian B., Miss	Smithfield
Lewis, Rosa B., Miss, Box 9	Mattoax, Va.
Lomax, Alfred D., 500 Banks St.	Greensboro
Long, Daisy V., Mrs., 11 W. College St.	Franklinton
Lytle, Clarence E., General Delivery	High Point
Lytle, Cora M., Mrs., General Delivery	High Point
Lutterloh, Mary E., Mrs., Route 6, Box 13	Greensboro
Manley, Dorothy R., Miss, 82 King St.	Hertford
Manley, Mary Mc., Mrs., 419 Bennett St.	Greensboro
Marley, Mabel, Miss, 611 E. Lee St.	Greensboro
Martin, Cleora A., Mrs.	Mt. Gilead
Mayfield, Ruth, Miss	Franklinton
May, Hazel F., Miss	Thomasville
Meador, Annie Lee, Miss, Box 278	Reidsville
Means, Eula I., 218 N. Sullivan Ave.	Gastonia
Miller, Ava Lee, Miss, Route 5, Box 190	Greensboro
Miller, Nina P., Route 5, Box 190	Greensboro
Moffitt, Mattie A., Mrs., 907 Lincoln St.	Greensboro
Morgan, Lola C., Mrs., 24 East St.	Greensboro
Monroe, Seth G.	Elizabethtown
Morris, Hezeakiah	Martinsville, Va.
Mosley, James E.	Middlesex
Murchison, Ella E., Miss, Route 3	Sanford

McAdoo, Mary Lee, Miss, Route 4, Box 341	Greensboro
McBroom, Erma C., Miss, Route 5, Box 91	Burlington
McCallum, Beatrice, Miss	Maxton
McCallum, Cassie B., Miss, Route 3, Box 407	Greensboro
McCallum, Estelle M., Miss, Route 3	Greensboro
McCallum, Fannie, Miss, Route 3, Box 407	Greensboro
McCleave, Allen F.	Liberty
McCleave, Annie B., Mrs.	Liberty
McKeithan, George E., 829 Beatie Ford Road	Charlotte
McKesson, Callie B., Miss	Bridgewater
McLean, Bessie C., Miss, 1107 Perkins St.	Greensboro
McLean, Maggie B., Miss, Box 412	Lumberton
McMillan, Lena B., Mrs., 424 Boyd St.	Greensboro
McNair, Cora Lee, Miss	Elrod
McNair, Walter L., 429 E. Washington St.	Greensboro
McNair, Zelphia, Miss, 624 S. Ashe St.	Greensboro
McRae, L. H., Route 1, Box 39	Seven Springs
McTier, Addie, Miss, 128 Booker St.	Greensboro
Neal, Grace, Miss, 502 Beech St.	Greensboro
Newby, Helena, Miss, 18 S. Euclid St.	Bellevue, Pa.
Newell, Mabel William, Mrs.	Littleton
Newberry, James E.	Liberty
Norman, Orine, Mrs., 402 Scott St.	Spartanburg, S. C.
O'Neil, Rovena F., Mrs., 415½ N. Greene St.	Morganton
Owens, Arnetta L., Miss, 408 Ramseur St.	Sanford
Parker, Lucille C., Miss, Route 2, Box 26	Bahama
Parrish, Bessie R., Miss	Method
Paylor, Rachel, Miss, 429 Banks St.	Greensboro
Peace, Samuel B., 526 S. Macon St.	Greensboro
Pearsall, Willie M., Mrs.	Greensboro
Penn, Fannie C., Miss, 188 Jackson St.	Reidsville
Peoples, Mary F., Miss	Reidsville
Perry, Nathaniel	Burgaw
Peterson, John T., 209 Ala. St.	Goldsboro
Phillips, Georgia, Miss	Lenoir
Phillips, Mary Frances, Miss	Graham
Pierce, Elizabeth, Mrs.	Warren Plains
Pierce, Jessie Almira, Miss, Box 811	Wilson
Pookrum, Fannie L., Mrs., 968 W. McCulloch St.	Greensboro
Poole, Mabel H., Mrs.	Graham
Pope, Lizzie B., Mrs., 316 E. South St.	Raleigh
Pope, Marietta V., Mrs., 627 S. Ashe St.	Greensboro
Price, Emma G., Mrs.	Reidsville
Price, Maud, Miss, 470 Cole St.	Greensboro
Pridgen, David S.	Whiteville

Raigns, John H., Route 1, Box 75	Scotland Neck
Reid, James E., 814 W. Monroe St.	Salisbury
Rhuffin, Fannie H., Mrs.	Union Hill
Rhyne, Helen W., Miss	Lenoir
Ricks, Daisy, Miss, 134 Broad St.	Franklin, Va.
Rives, Lillie, Miss, 1403 E. Washington St.	Greensboro
Roberts, Maggie G., Miss	Leaksville
Robinson, Annie L., Miss, 818 Benbow Road	Greensboro
Robinson, Edna W., Mrs., 1020 Perkins St.	Greensboro
Robinson, Mattie D., 910 Benbow Road	Greensboro
Robinson, William D.	Burgaw
Robinson, W. F., 209 N. Dudley St.	Greensboro
Roche, Susie, Miss	Hickory
Rogers, Annie P., Mrs. Box 432	Graham
Rowell, James E., 508 N. Wilson St.	Florence
Sampson, Pearl, Miss	Clinton
Sapp, William, Route 3, Box 393	Greensboro
Saunders, Clifton, 711 Macon St.	Greensboro
Saunders, Geneva H., Mrs., 242 Gulf St.	Laurinburg
Scott, Nettie A., Miss, 504 S. Green St.	Morganton
Scott, Juliet M., Miss	Adako
Sharpe, Lessie I., Mrs., 617 S. Ashe St.	Greensboro
Sherrod, Gladys E., Miss, 607 W. Preston St.	Selma
Shields, Bessye, Miss, Box 93	Scotland Neck
Sinclair, Nancy B., Mrs., 213 N. Dudley St.	Greensboro
Smith, Elizabeth H., Mrs.	Reidsville
Smith, Ethel S. H., Mrs., A. and T. College	Greensboro
Smith, Ida Mae, Miss	Ramseur
Smith, Isabelle, Miss, Route 2, Box 22	Liberty
Smith, Mamie, Miss, Route 1, Box 22	Liberty
Smith, Thelma Pitt, Mrs., 1700 Spring Garden St.	Greensboro
Snipes, James T., 315 McDade St.	Chapel Hill
Spaulding, Leora J., Mrs., 1009 Lindsay St.	Greensboro
Steele, Anamada L., Miss, 186 N. Stewart St.	Rockingham
Steele, Carrie T., Miss, 247 Cleveland St.	Danville
Street, Lessie J., Miss, Route 2, Box 17	Greensboro
Stewart, Minnie, Miss, Box 189	Lenoir
Swinson, G. T., Route 5, Box 112	Snow Hill
Tate, Addie W., Mrs.	Randleman
Tate, Ossie V., Miss	Mebane
Taylor, Andrew W., 504 Beech St.	Greensboro
Taylor, Lucia, Miss	Abbeville, S. C.
Taylor, Martha C.	Parmelee
Taylor, Sallie, Miss, Box 310	Abbeville, S. C.
Thompson, Annie Mae, Miss, 1423 E. 14th St.	Winston-Salem

Thompson, Eula L., Miss	Lumberton
Thompson, Robenia W., Miss, Route 6	Sanford
Tillman, Gonzolo DeSoto, Box 297	Winnsboro
Timmons, Mozelle, Miss, 317 Grant St.	Greensboro
Tonkins, Mary M., Miss	Sedalia
Towns, Eva A., Mrs., 725 E. Washington St.	High Point
Townsend, Jessie B., Mrs.	Laurinburg
Tucker, Maggie A., Mrs.	Oriental
Turner, Bertha, Miss	Efland
Vinson, Elizabeth R., Mrs.	Wilson Mills
Wade, Mary E., Miss, 524 Harrison Ave.	Roanoke, Va.
Walker, Ethel Lee, Miss, 1410 Davis Ave.	High Point
Walker, Margaret B., Brainard Inst.	Chester, S. C.
Walker, Mary R., Mrs., Route 5	Danville
Wallace, Louise, Miss, 222 Regan St.	Greensboro
Walls, Melvin, Box 81	Albemarle
Washington, George H., 404 Banks St.	Greensboro
Warner, Nancy L., Miss, 723 S. Center, Gen. Del. ..	Spartanburg, S. C.
Weaver, Maude W., Mrs., 211 W. Walnut Ave.	Gastonia
Wicks, Marguret H., Miss	Halifax, Va.
Wicks, W. H.	Halifax, Va.
White, C. H., Rev., 716 E. Washington St.	High Point
White, Kittie H., Miss, 346 Ragan St.	Greensboro
Whitley, James E., Route 2, Box 52	Smithfield
Whitsett, Sadie Lee, Miss, 1013 Lindsay St.	Greensboro
Williams, Alice M., Miss, Route 2	Littleton
Williams, Dorothy O., Miss, 18 S. Quintard Ave.	Anniston, Ala.
Williams, C. N.	Littleton
Williams, Helen, Miss	Littleton
Williams, Matilda W., Mrs.	Milton
Williamson, Jasper J., 815 Hilltop St.	High Point
Williamson, Pearl A., Mrs., 815 Hilltop St.	High Point
Wilmer, Elsie J., Miss, 324 Bradley Road	Danville, Va.
Wilmer, Louise J., Miss, 324 Bradley Road	Danville, Va.
Wilson, Ethel M., Miss	Hamlet
Wilson, Olethea E., Miss, 27 Percy Street	Charleston, S. C.
Witherow, Clima L., Miss, Box 34	Liberty
Woodard, Pauline, Miss, 811 E. Market St.	Smithfield
Woods, Frances C., Miss	Charlotte C. H., Va.
Woods, Naurice, 221 E. Gaston St.	Greensboro
Wooten, Rosa Lee, Miss, Box 294	Goldsboro
Worth, Thomas R., Route 1	Haw River

EXTENSION DEPARTMENT, 1931-1932

ASHEBORO CENTER

Brewer, Flossie, Mrs.	Asheboro
Brown, Agnes C.	Asheboro
Brown, Essie M., Miss	Asheboro
Davis, Ruth A., Mrs.	Asheboro
Foust, J. M.	Asheboro
Foust, Sarah	Asheboro
Franks, Marjorie	Asheboro
Haith, Duval E.	Asheboro
Hardy, Louise W., Mrs.	Asheboro
Harrison, Mary Adelaide	Asheboro
Lilly, Margaret B.	Asheboro
Wallace, Addie	Asheboro

BURLINGTON CENTER

Bailey, Marie Selma, Miss	Burlington
Barnes, Mary, Miss	Burlington
Brown, Merle, Miss	Burlington
Boykins, J. E., Miss	Burlington
Chandler, Sadie D., Mrs.	Burlington
Day, Juanita M. D., Miss	Burlington
Faucette, Eunice M., Miss	Burlington
Fitzgerald, Sallie, Miss	Burlington
Foust, Annie Josephine	Burlington
Foust, Lillie A., Mrs.	Burlington
Gunn, J. F., Miss	Burlington
Holt, Ava, Miss	Burlington
Hooper, Arline, Miss	Burlington
Holt, Dorothy, Miss	Burlington
Holt, Mamie J., Mrs.	Burlington
Hooper, Louise, Miss	Burlington
Ivey, Maude Harris, Miss	Burlington
McBroom, Erma G., Miss	Burlington
Phillips, F. Mary, Miss	Burlington
Sellars, Maggie, Miss	Burlington

GREENSBORO CENTER

Ashmore, Juanita B., Miss	Greensboro
Bobo, Olive, Miss	Greensboro
Bradford, Catherine, Miss	Greensboro

Bradford, E. P., Mrs.	Greensboro
Buffaloe, Annie T., Mrs.	Greensboro
Bullock, B. M., Mrs.	Greensboro
Bullock, Mary D.	Greensboro
Bullock, R. Morehead, Mrs.	Greensboro
Cotton, Eunice V., Mrs.	Greensboro
Dansby, John B.	Greensboro
DeHuguley, Clyde H.	Greensboro
Ellis, Carrie D.	Greensboro
Enoch, Dorothea	Greensboro
Falkner, Ralph C. S.	Greensboro
Forney, Cornelia Thompson	Greensboro
Greene, Willie E.	Greensboro
Greer, Alma	Greensboro
Grigsby, Ella E.	Greensboro
Hill, Cora E.	Greensboro
Hill, N. Constance, Miss	Greensboro
Hill, Pattie Miller, Mrs.	Greensboro
Holoman, Esther, Mrs.	Greensboro
Holloway, Herbert M.	Greensboro
Johnson, Edythe W., Mrs.	Greensboro
Jones, Mamie, Mrs.	Greensboro
Jones, Nannie C., Mrs.	Greensboro
Laughlin, Duella	Greensboro
Mebane, Connie, Mrs.	Greensboro
Miller, Nina P., Mrs.	Greensboro
Neal, Grace, Miss	Greensboro
Parks, Herbert	Greensboro
Paylor, Rachael, Miss	Greensboro
Payne, Ruth Hicks	Greensboro
Reid, J. E.	Greensboro
Roberts, M. J., Mrs.	Greensboro
Smith, Thelma Pitt	Greensboro
Taylor, Annie Hazel	Greensboro
Taylor, Mamie	Greensboro
Washington, George H., Rev.	Greensboro
Washington, Nannie G., Mrs.	Greensboro
Webster, N. C.	Greensboro
White, Kittie H., Miss	Greensboro

LAURINBURG CENTER

Blue, R. M., Miss	Laurinburg
Ford, Ethel L., Miss	Laurinburg
James, Bettie, Mrs.	Laurinburg

Jones, M. L., Miss	Laurinburg
Lucas, Millie, Mrs.	Laurinburg
McKinnon, A., Miss	Laurinburg
McMillan, Mamie, Mrs.	Laurinburg
Malloy, Z. Louise McClennand	Laurinburg
Parker, A. L., Mrs.	Laurinburg
Price, P. B., Mrs.	Laurinburg
Samders, G. H.	Laurinburg
Strother, S. E., Mrs.	Laurinburg
Townsend, L. W.	Laurinburg
Willex, R. E., Miss	Laurinburg

LEAKSVILLE CENTER

Bell, Bethel M.	Leaksville
Boyd, Beulah McCarkle	Leaksville
Griffin, Frankie	Leaksville
Johns, Madilene	Leaksville
Miller, Wilba E.	Leaksville
Pichard, Adele	Leaksville
Reese, Ophelia V.	Leaksville
Roberts, Eleanor	Leaksville
Smith, Allis	Leaksville
Wright, Lottie H.	Leaksville

LIBERTY AND SILER CITY CENTER

Baldwin, Fannie Mae, Miss	Liberty
Cannady, Marie, Miss	Siler City
Cooper, George W.	Siler City
Edwards, DeLois M., Miss	Siler City
Foster, Lettie L., Mrs.	Liberty
Foster, O. P., Rev.	Liberty
Foster, Pluma L., Mrs.	Liberty
Fox, Madge L., Mrs.	Liberty
McCleave, Annie B., Mrs.	Liberty
McCleave, Reverend Allen	Liberty
Newberry, Julia E., Mrs.	Liberty
Nixon, Florence, Miss	Liberty
Staley, Martha E., Miss	Liberty
Gilmer, M. L., Miss	Liberty
Thompson, Robina W., Miss	Liberty

LUMBERTON CENTER

Allen, J. E., Mrs.	Lumberton
Anderson, Katie B.	Lumberton
Brotherton, J. M., Mrs.	Lumberton

Dunston, Bertha Lee	Lumberton
Floyd, Carra F.	Lumberton
Floyd, J. H.	Lumberton
Gavin, Dora, Mrs.	Lumberton
Hayes, S. Singletary	Lumberton
Hollie, Harrell, Miss	Lumberton
Humphrey, Clara	Lumberton
Johnson, Ollie Mae	Lumberton
King, Emma	Lumberton
Love, Emma J.	Lumberton
McCallum, Rosa E.	Lumberton
McKay, Carrie V.	Lumberton
McKellar, M., Mrs.	Lumberton
McKoy, Hattie	Lumberton
McMiller, Katie	Lumberton
McNeill, Gertrude	Lumberton
McNeill, Inez	Lumberton
McNeill, Ruth, Mrs.	Lumberton
McQueen, A. J., Mrs.	Lumberton
Moore, Pearl, Mrs.	Lumberton
Peppers, Florence L.	Lumberton
Powell, Bessie F.	Lumberton
Spearman, Carletta	Lumberton
Spearman, Isadora	Lumberton
Thompson, A. G.	Lumberton
Thompson, Bertha	Lumberton
Thompson, Eula L.	Lumberton
Thompson, John A.	Lumberton
Thompson, Theressa P.	Lumberton
Toon, G. B., Mrs.	Lumberton
White, Madie L.	Lumberton
Whitted, Hattie L.	Lumberton
Williams, Carrie	Lumberton
Write, Molloy	Lumberton

MADISON CENTER

Camp, Mason L.	Madison
Carter, Gertrude E., Mrs.	Madison
Ligon, John W.	Madison
Penn, Samuel B.	Madison
Penn, W. A.	Madison
Richardson, C. L.	Madison
Richardson, L. J., Mrs.	Madison
Smitherman, S. J., Mrs.	Madison

Spaulding, L. J., Mrs.	Madison
Scales, M. J., Mrs.	Madison
Toliver, C. M.	Madison
Cardwell, Mattie, Miss	Madison

MAXTON CENTER

Barr, Cona Lee, Miss	Maxton
Bell, Luvenia A.	Maxton
Brewington, Maggie L.	Maxton
Bullard, Alzada	Maxton
Campbell, Wesley	Maxton
Carpenter, Arnette G.	Maxton
Dean, R. B.	Maxton
Douglass, Mary	Maxton
Drake, Rosa	Maxton
Graham, Pluma D.	Maxton
Harlee, Katie T.	Maxton
Henly, Eva Chanie	Maxton
Herrington, Garvester	Maxton
Johnson, Cora N., Mrs.	Maxton
Kazee, Capel	Maxton
Leach, G. H.	Maxton
Lilly, Wessie J.	Maxton
Malloy, Catherine V., Mrs.	Maxton
Malloy, Leora	Maxton
Malloy, Mary D.	Maxton
McIver, Ethel V.	Maxton
McLean, Rachel	Maxton
McNair, Bessie	Maxton
McNair, Cora Lee	Maxton
Mitchell, Edna Mae	Maxton
Scriven, Bertha	Maxton
Scriven, R. C.	Maxton
Vinson, Ione	Maxton
Wilson, Freda A.	Maxton

MEBANE CENTER

Albright, John W.	Mebane
Blue, Alice B.	Mebane
Christian, Mary M.	Mebane
Donnell, Minnie	Mebane
Faucett, Herman H.	Mebane
Green, R. L.	Mebane
Hawkins, Belle T.	Mebane

Ingram, Geneva C. B.	Mebane
Keck, Fosteena E.	Mebane
Miller, Ava L.	Mebane
Morrow, Dora A.	Mebane
Murray, Alice G.	Mebane
Pittman, Pearl Hoover	Mebane
Poole, Mabel H., Mrs.	Mebane
Pryor, Daisy L.	Mebane
Rogers, Annie P.	Mebane
Rogers, Mary Holt	Mebane
Taylor, Ruth M.	Mebane
Turner, Bertha, Miss	Mebane
Wade, Victoria M.	Mebane
Worth, Thomas R.	Mebane

ROXBORO CENTER

Bowman, Beeman J.	Roxboro
Brooks, Earle, Mrs.	Roxboro
Brooks, Leonidas	Roxboro
Burton, Pearl, Miss	Roxboro
Clayton, Annie, Miss	Roxboro
Clayton, Julia, Miss	Roxboro
Hairston, Beatrice, Miss	Roxboro
Hairston, Robert L.	Roxboro
Harris, Beatrice, Miss	Roxboro
Hester, Connie, Miss	Roxboro
Hester, Mannie, Miss	Roxboro
Hester, Elsie, Miss	Roxboro
Humphreys, Flossie, Miss	Roxboro
Jeffers, H. Thebig	Roxboro
Johnson, Maggie, Miss	Roxboro
Morrison, Alpha, Miss	Roxboro
Patilla, Mary, Mrs.	Roxboro
Stanfield, Helen, Miss	Roxboro
Woods, Augusta, Miss	Roxboro
Woods, Wilma, Miss	Roxboro

YANCEYVILLE CENTER

Claiborne, Carrie D., Mrs.	Yanceyville
Compton, L. W., Rev.	Yanceyville
Cunningham, Hassie, Mrs.	Yanceyville
Currie, Lois L., Mrs.	Yanceyville
Dillard, L. H., Miss	Yanceyville
Dillard, N. L., Mr.	Yanceyville

Freeman, Mattie, Mrs.	Yanceyville
Harroway, J. F., Rev.	Yanceyville
Hill, H. Q., Mrs.	Yanceyville
James, Katherine E., Miss	Yanceyville
Motley, Gladys, Miss	Yanceyville
Robinson, Mattie D., Mrs.	Yanceyville
Slade, E. Beatrice, Mrs.	Yanceyville
Slade, Parolee, Mrs.	Yanceyville

ENROLLMENT BY STATES**Regular Session—1931-32**

Alabama	2	Mississippi	1
Connecticut	1	New Jersey	2
Florida	4	New York	2
Georgia	3	North Carolina	231
Indiana	1	Pennsylvania	4
Illinois	2	South Carolina	14
Kentucky	2	Tennessee	4
Massachusetts	3	Virginia	21
Missouri	1	West Virginia	2

ENROLLMENT BY FOREIGN COUNTRIES

Africa	1
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DISTRIBUTION BY NORTH CAROLINA COUNTIES

Alamance	8	Halifax	6
Anson	1	Harnett	1
Beaufort	1	Haywood	1
Bertie	2	Henderson	1
Buncombe	2	Hertford	7
Burke	1	Iredell	2
Brunswick	2	Jackson	1
Cabarrus	3	Johnston	2
Caldwell	1	Lee	1
Carteret	1	Martin	1
Caswell	1	Mecklenburg	3
Catawba	4	Montgomery	2
Chatham	1	Moore	1
Chester	1	Nash	3
Chowan	1	New Hanover	11
Columbus	6	Northampton	4
Cumberland	2	Pender	3
Davidson	1	Perquimans	4
Duplin	3	Person	1
Durham	6	Pitt	3
Forsyth	3	Randolph	1
Gaston	1	Richmond	5
Granville	1	Rockingham	6
Greene	3	Rowan	5
Guilford	78	Sampson	1
Franklin	1	Scotland	2

Stanley	1	Wake	4
Stokes	1	Warren	5
Surry	1	Wayne	3
Vance	1	Wilkes	2

DISTRIBUTION OF STUDENTS BY CLASSES, 1931-32

College Department:		
Seniors	38	
Juniors	56	
Sophomores	71	
Freshmen	97	
Special Students	16	
		<hr/>
Total	278	
Smith-Hughes Trade School	15	
State Rehabilitation Students	8	
		<hr/>
Total Enrollment of Regular Students		301
Regular Session, 1931-32	301	
Extension Classes, 1931-32	246	
Summer Quarter, 1931	314	
		<hr/>
Total		861

APPLICATION BLANK

for admission to

THE AGRICULTURAL AND TECHNICAL COLLEGE GREENSBORO, N. C.

1. Full name
(Last Name) (First Name) (Middle Name)
2. Complete address
(P. O. Box, or Street and Number, or R. F. D. and Box Number)
3.
(Name of Post Office, or Name of City and State)
4. Who is responsible for the payment of your bills
5. What is his (or her) relation to you?
6. What is his address?
(Street and Number, or R. F. D. and Box; City and State)
7. Give name of the schools in which you received your former training:

Name of School (Example) Broad St. High	Address (Example) Apex, N. Y. R. F. D. 1, Box 9	Years Attended (Example) 1920-21, '21-22	Principal (Example) Jno. Doe, Prin.

8. What is the highest class or grade you reached in school?
9. What is the date of your birth?
10. The A. and T. College has the following Schools:
Trade School (leads to a certificate).
COLLEGE (Four-year courses):
School of Agriculture (leads to degree in Agriculture).
School of Mechanic Arts (leads to degrees in Engineering, Architecture, etc.)
School of Science (leads to degrees in Sciences and Education).
Check the school, or schools, above which you wish to enter (check thus X).
(If Trade School grade, state what trade you wish to pursue)
11. If admitted to the A. and T. College, do you promise to abide by its rules and regulations?
12. To what church do you (or parent) belong?

The applicant has been admitted upon transcript of previous training and temporarily assigned to class (has been notified to appear on for examination).

Date Registrar.

DIRECTIONS FOR ENTRANCE

The Applicant will make the following payments:

MONTHLY PAYMENTS

September 12th	\$49.50
October 9th	22.50
November 6th	22.50
December 2nd	22.50
January 4th (Laboratory Fees due)	26.50
February 1st	22.50
March 1st	22.50
April 1st (Laboratory Fees due)	26.50
May 1st	22.50

See list of Term Payments on page 28.

No student can remain on the campus longer than twenty-four hours without registering.

No student will be admitted to any department of the college until he has paid his first month's expenses.

Each student should bring two quilts or blankets, one counterpane, four sheets, two pillow cases, six towels, etc.

Parents are requested to send all money to the President rather than to the student.

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APPLICATION BLANK

for admission to

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(Last Name) (First Name) (Middle Name)
2. Complete address
(P. O. Box, or Street and Number, or R. F. D. and Box Number)
3.
(Name of Post Office, or Name of City and State)
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(Street and Number, or R. F. D. and Box; City and State)
7. Give name of the schools in which you received your former training:

Name of School (Example) Broad St. High	Address (Example) Apex, N. Y. R. F. D. 1, Box 9	Years Attended (Example) 1920-21, '21-22	Principal (Example) Jno. Doe, Prin.

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Date Registrar.

